Fig. 1

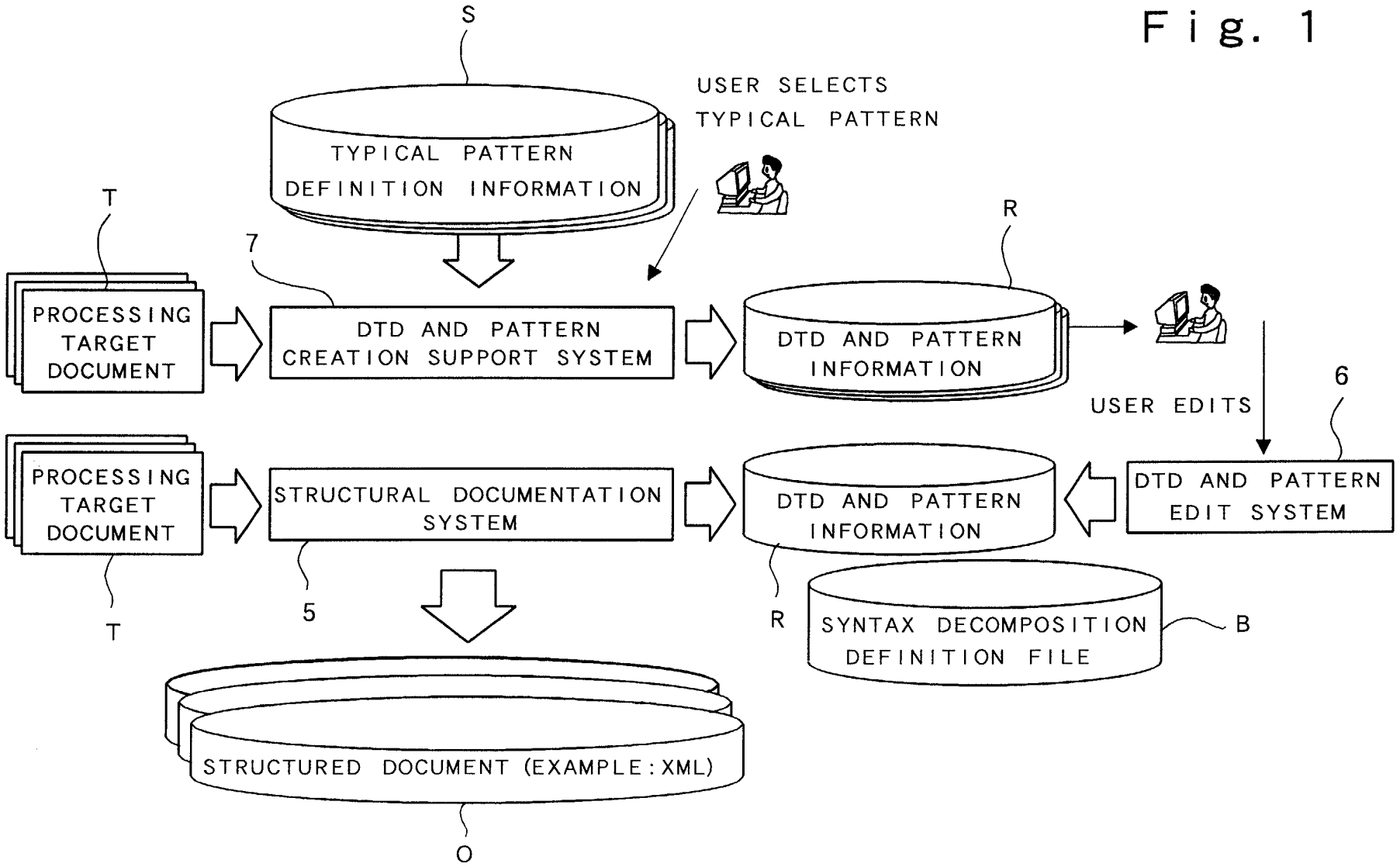

S
TYPICAL PATTERN DEFINITION INFORMATION
USER SELECTS TYPICAL PATTERN
T
PROCESSING TARGET DOCUMENT
7
DTD AND PATTERN CREATION SUPPORT SYSTEM
R
DTD AND PATTERN INFORMATION
USER EDITS
6
DTD AND PATTERN EDIT SYSTEM
PROCESSING TARGET DOCUMENT
T
STRUCTURAL DOCUMENTATION SYSTEM
5
DTD AND PATTERN INFORMATION
R
SYNTAX DECOMPOSITION DEFINITION FILE
B
STRUCTURED DOCUMENT (EXAMPLE:XML)
O

Fig. 2

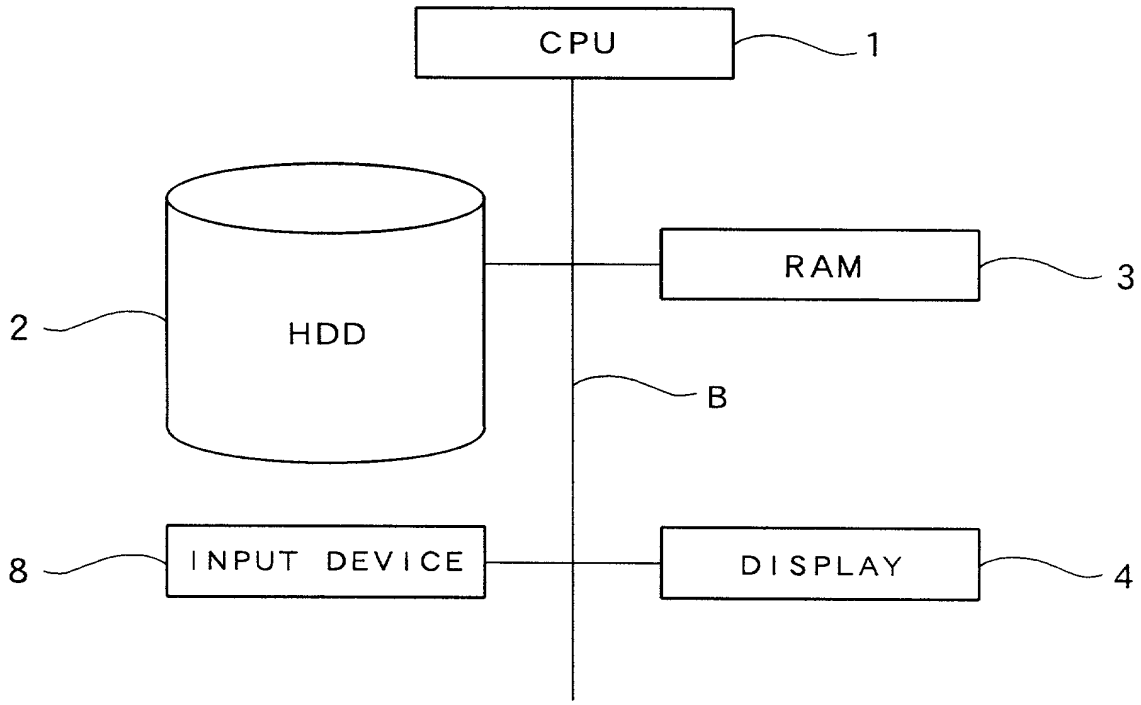


Fig. 3

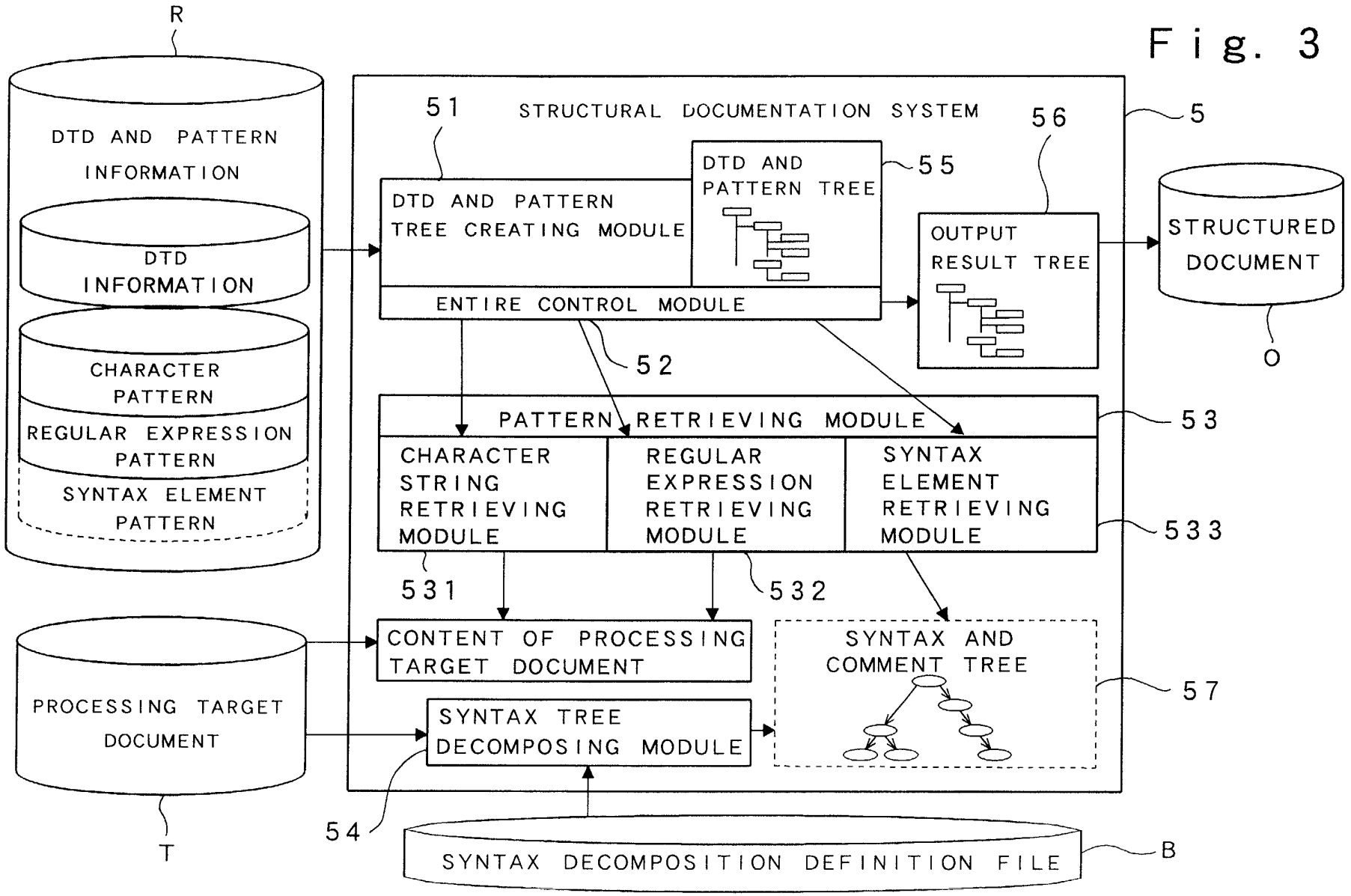

R
DTD AND PATTERN INFORMATION
DTD INFORMATION
CHARACTER PATTERN
REGULAR EXPRESSION PATTERN
SYNTAX ELEMENT PATTERN
51
STRUCTURAL DOCUMENTATION SYSTEM
5
56
DTD AND PATTERN TREE
55
DTD AND PATTERN TREE CREATING MODULE
OUTPUT RESULT TREE
STRUCTURED DOCUMENT
O
ENTIRE CONTROL MODULE
52
PATTERN RETRIEVING MODULE
53
CHARACTER STRING RETRIEVING MODULE
REGULAR EXPRESSION RETRIEVING MODULE
SYNTAX ELEMENT RETRIEVING MODULE
533
531
532
PROCESSING TARGET DOCUMENT
CONTENT OF PROCESSING TARGET DOCUMENT
SYNTAX AND COMMENT TREE
57
SYNTAX TREE DECOMPOSING MODULE
54
T
SYNTAX DECOMPOSITION DEFINITION FILE
B

Fig. 4

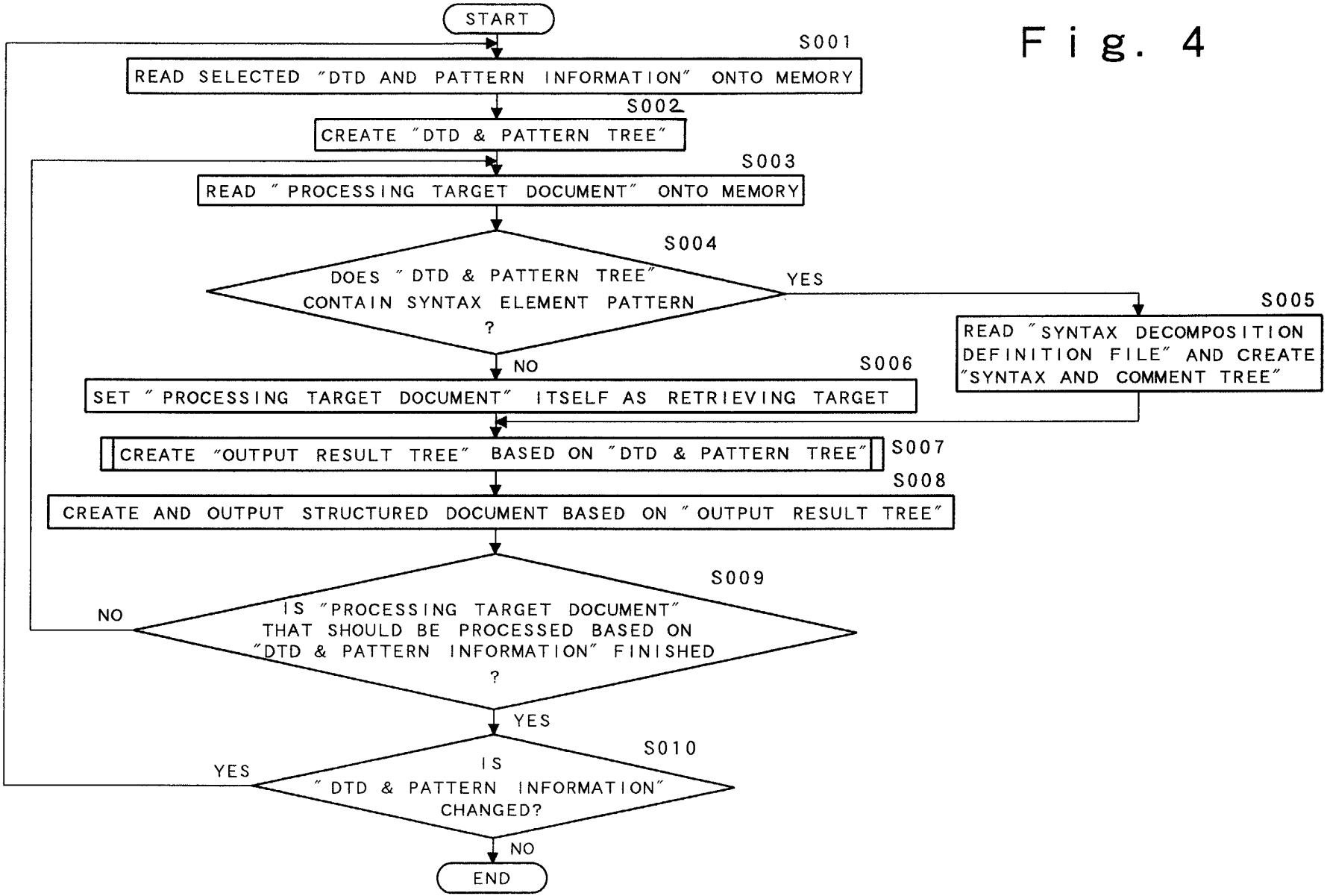

START
S001
READ SELECTED "DTD AND PATTERN INFORMATION" ONTO MEMORY
S002
CREATE "DTD & PATTERN TREE"
S003
READ "PROCESSING TARGET DOCUMENT" ONTO MEMORY
S004
DOES "DTD & PATTERN TREE" CONTAIN SYNTAX ELEMENT PATTERN ?
YES
S005
READ "SYNTAX DECOMPOSITION DEFINITION FILE" AND CREATE "SYNTAX AND COMMENT TREE"
NO
S006
SET "PROCESSING TARGET DOCUMENT" ITSELF AS RETRIEVING TARGET
CREATE "OUTPUT RESULT TREE" BASED ON "DTD & PATTERN TREE"
S007
S008
CREATE AND OUTPUT STRUCTURED DOCUMENT BASED ON "OUTPUT RESULT TREE"
S009
NO
IS "PROCESSING TARGET DOCUMENT" THAT SHOULD BE PROCESSED BASED ON "DTD & PATTERN INFORMATION" FINISHED ?
YES
S010
YES
IS "DTD & PATTERN INFORMATION" CHANGED?
NO
END

Fig. 5

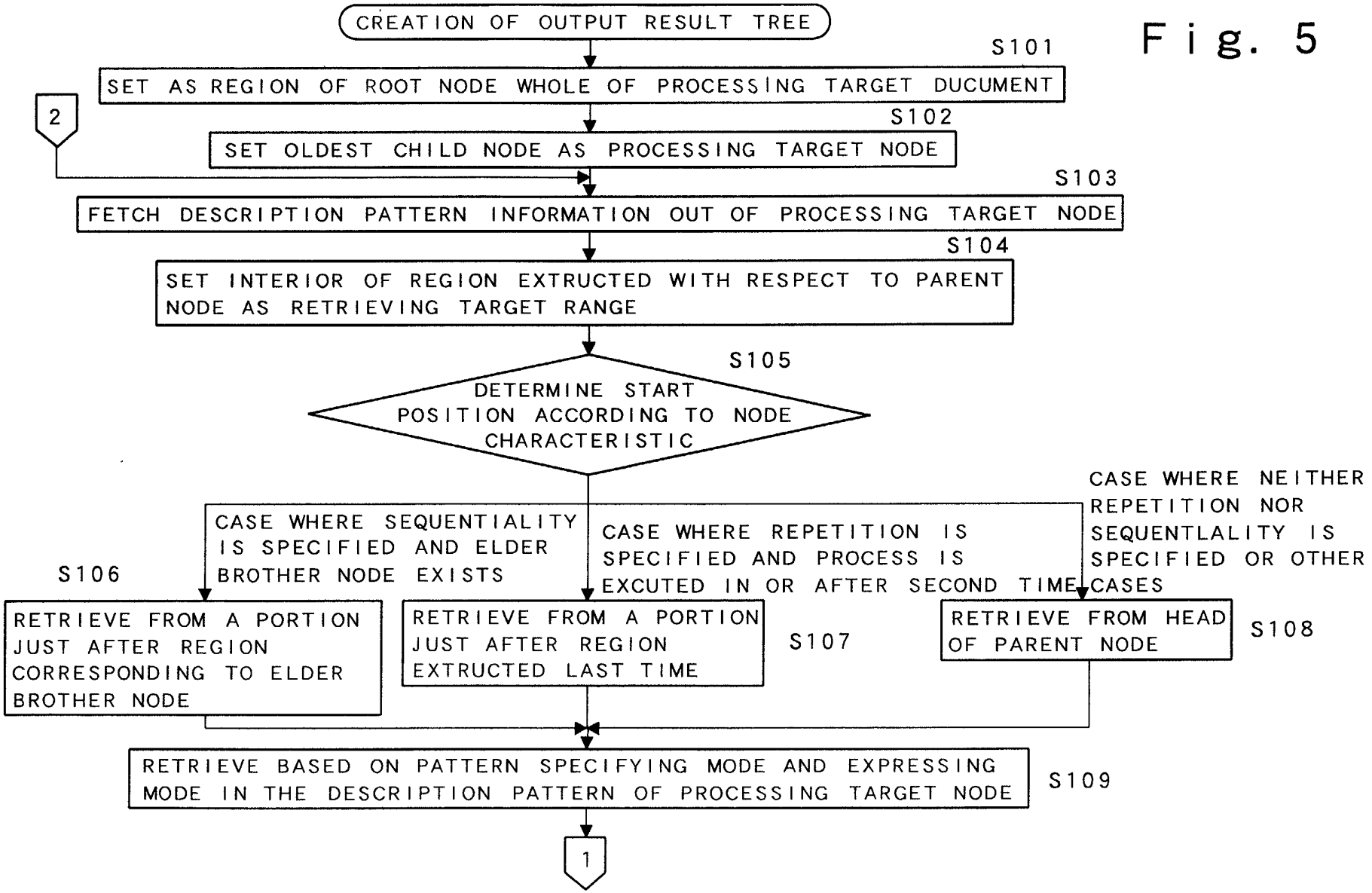

CREATION OF OUTPUT RESULT TREE
S101
SET AS REGION OF ROOT NODE WHOLE OF PROCESSING TARGET DUCUMENT
2
S102
SET OLDEST CHILD NODE AS PROCESSING TARGET NODE
S103
FETCH DESCRIPTION PATTERN INFORMATION OUT OF PROCESSING TARGET NODE
S104
SET INTERIOR OF REGION EXTRUCTED WITH RESPECT TO PARENT NODE AS RETRIEVING TARGET RANGE
S105
DETERMINE START POSITION ACCORDING TO NODE CHARACTERISTIC
CASE WHERE SEQUENTIALITY IS SPECIFIED AND ELDER BROTHER NODE EXISTS
CASE WHERE REPETITION IS SPECIFIED AND PROCESS IS EXCUTED IN OR AFTER SECOND TIME
CASE WHERE NEITHER REPETITION NOR SEQUENTLALITY IS SPECIFIED OR OTHER CASES
S106
RETRIEVE FROM A PORTION JUST AFTER REGION CORRESPONDING TO ELDER BROTHER NODE
RETRIEVE FROM A PORTION JUST AFTER REGION EXTRUCTED LAST TIME
S107
RETRIEVE FROM HEAD OF PARENT NODE
S108
RETRIEVE BASED ON PATTERN SPECIFYING MODE AND EXPRESSING MODE IN THE DESCRIPTION PATTERN OF PROCESSING TARGET NODE
S109
1

Fig. 6

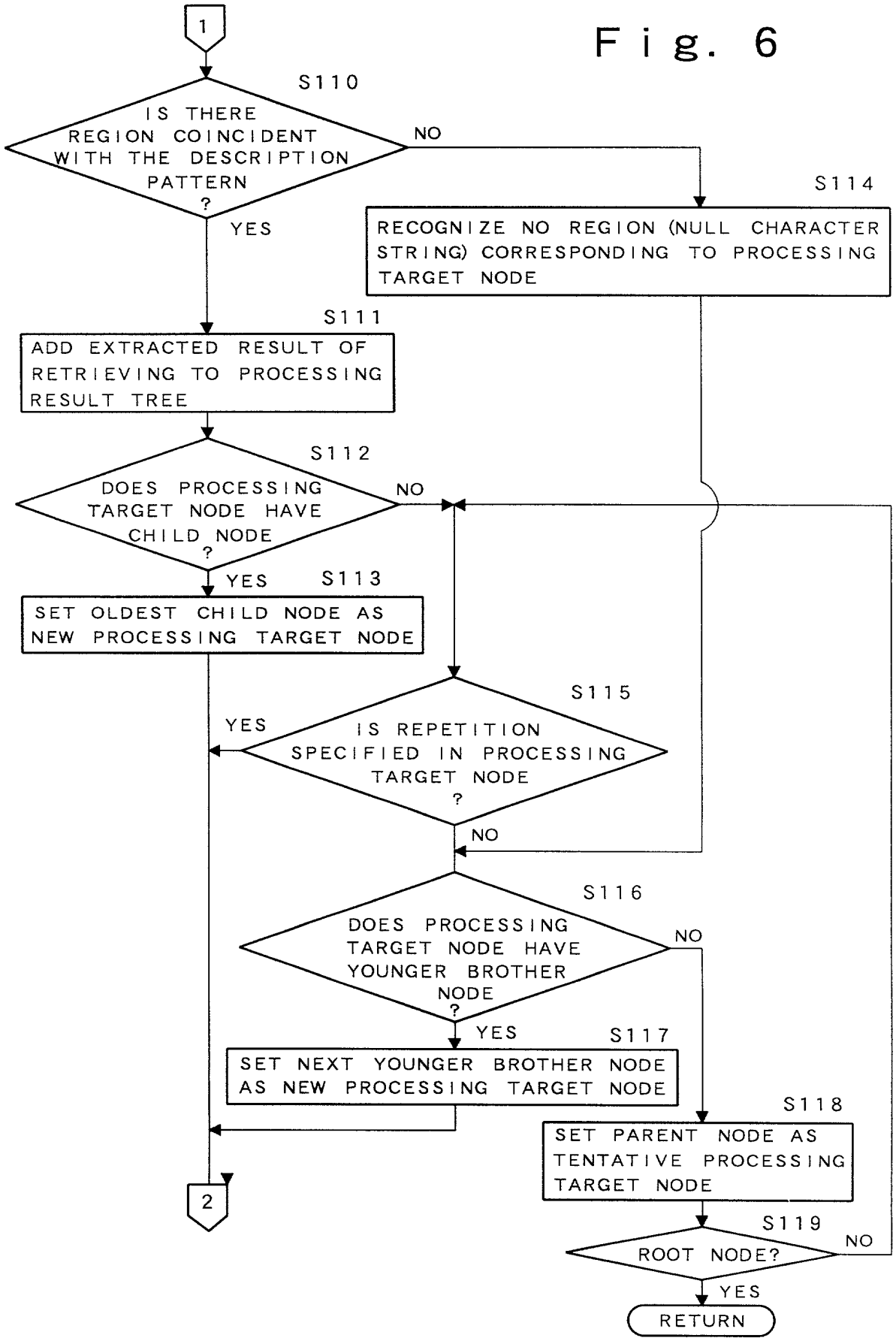

1
S110
IS THERE REGION COINCIDENT WITH THE DESCRIPTION PATTERN ?
NO
YES
S114
RECOGNIZE NO REGION (NULL CHARACTER STRING) CORRESPONDING TO PROCESSING TARGET NODE
S111
ADD EXTRACTED RESULT OF RETRIEVING TO PROCESSING RESULT TREE
S112
DOES PROCESSING TARGET NODE HAVE CHILD NODE ?
NO
YES
S113
SET OLDEST CHILD NODE AS NEW PROCESSING TARGET NODE
S115
IS REPETITION SPECIFIED IN PROCESSING TARGET NODE ?
YES
NO
S116
DOES PROCESSING TARGET NODE HAVE YOUNGER BROTHER NODE ?
NO
YES
S117
SET NEXT YOUNGER BROTHER NODE AS NEW PROCESSING TARGET NODE
S118
SET PARENT NODE AS TENTATIVE PROCESSING TARGET NODE
S119
ROOT NODE?
NO
YES
RETURN
2

Fig. 7

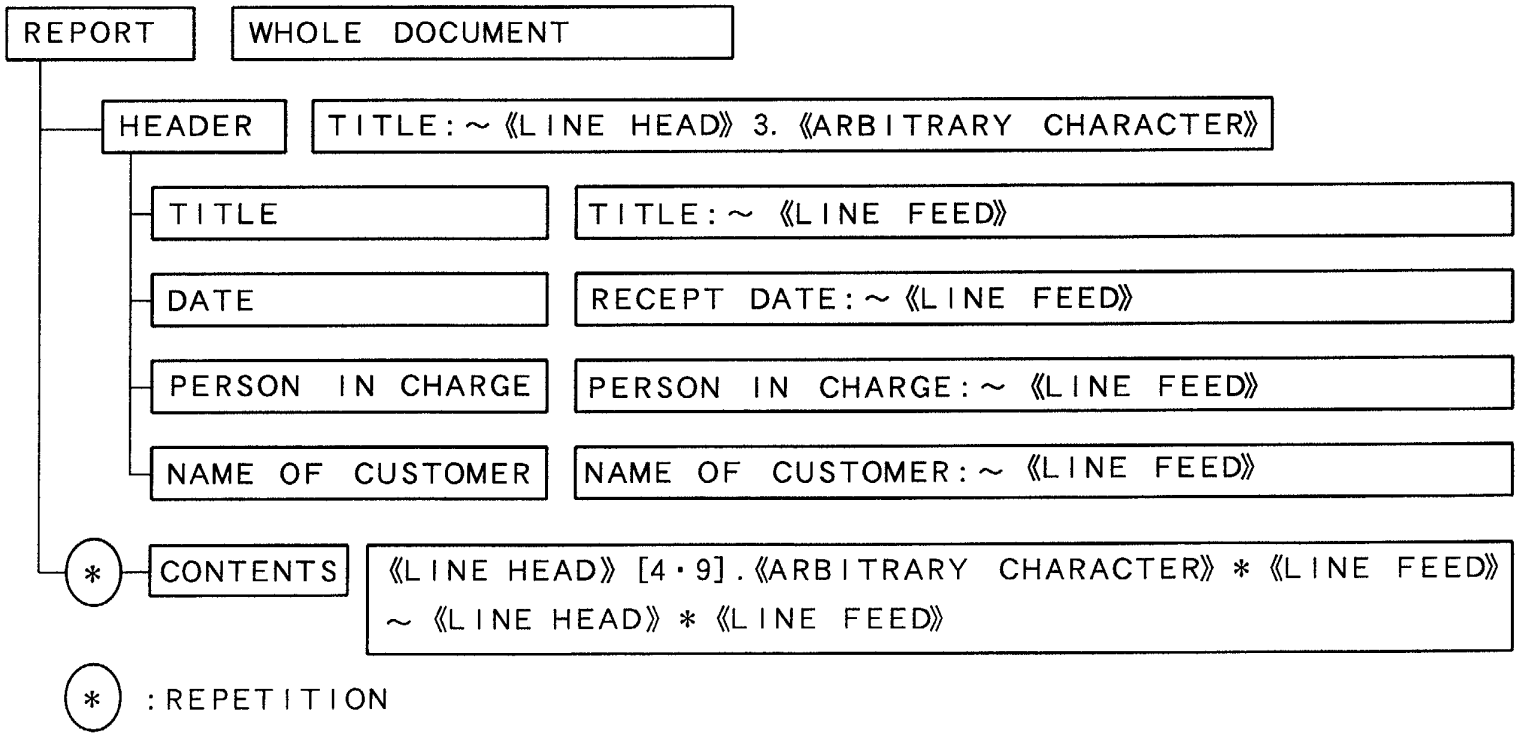

REPORT
WHOLE DOCUMENT
HEADER
TITLE:~《LINE HEAD》3.《ARBITRARY CHARACTER》
TITLE
TITLE:~《LINE FEED》
DATE
RECEPT DATE:~《LINE FEED》
PERSON IN CHARGE
PERSON IN CHARGE:~《LINE FEED》
NAME OF CUSTOMER
NAME OF CUSTOMER:~《LINE FEED》
*
CONTENTS
《LINE HEAD》[4・9].《ARBITRARY CHARACTER》*《LINE FEED》
~《LINE HEAD》*《LINE FEED》
*
:REPETITION

Fig. 8

TO CHIEF OF DIVISION

TITLE:BUSINESS NEGOTIATION REPORT
PERSON IN CHARGE:YASUYUKI FUJIKAWA

1. NAME OF CUSTOMER YAMADA SHOKEN
2. RECEPT DATE:1997.02.17
3. OUTLINE
   An offer to use a tool of our company from above customer.
4. OUTLINE
   There is an offer to use following SDAS tools.
   ・AA/BRMODELLER
   ・YPS
5. FUTURE SCHEDULE
   Demonstration is scheduled to be conducted by explanatory staff of our company at customer's place in next week. Simultaneously Q & A card (sent to development company) of customers are to be replied.

That's all

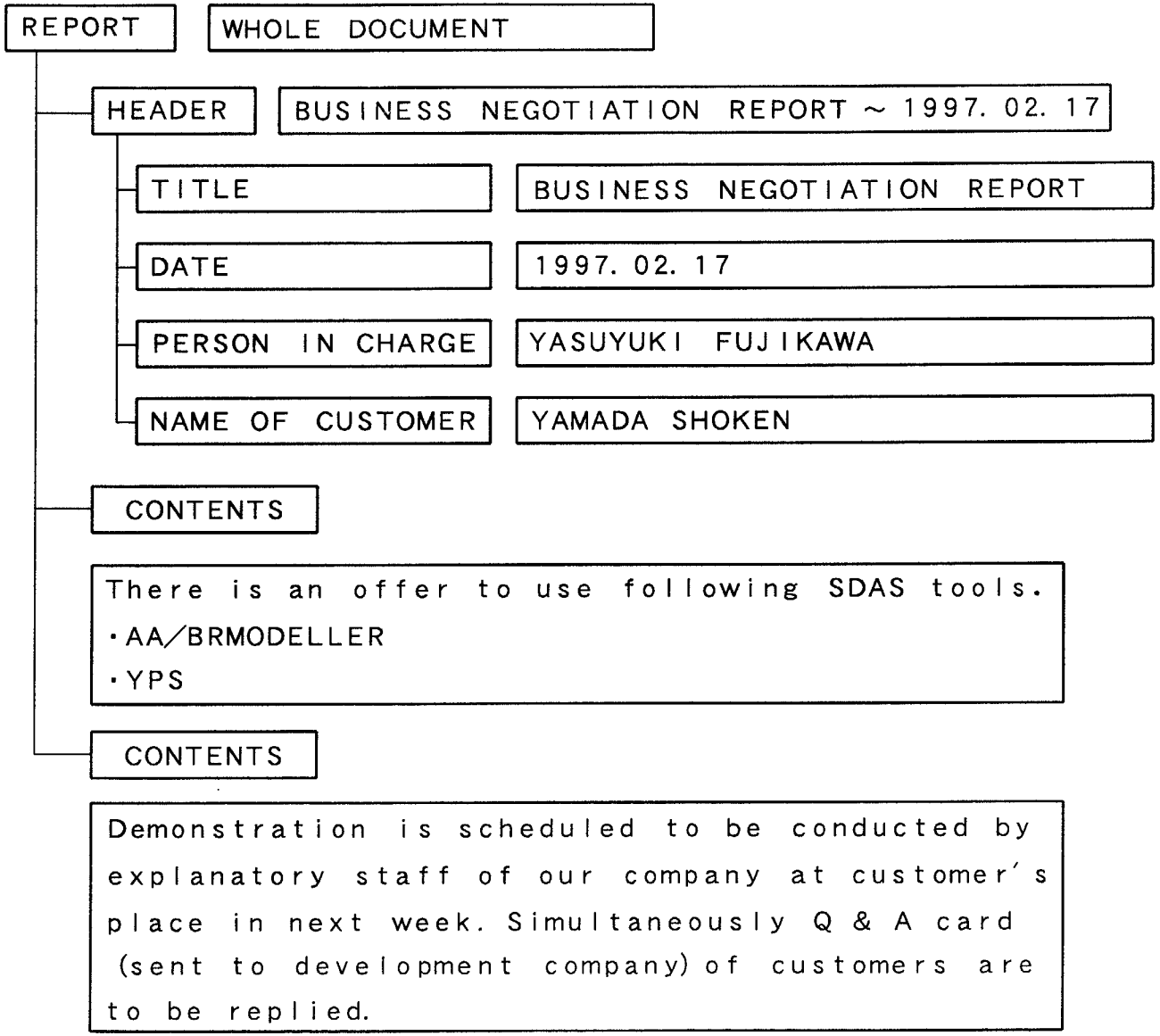

REPORT
WHOLE DOCUMENT
HEADER
BUSINESS NEGOTIATION REPORT ~ 1997. 02. 17
TITLE
BUSINESS NEGOTIATION REPORT
DATE
1997. 02. 17
PERSON IN CHARGE
YASUYUKI FUJIKAWA
NAME OF CUSTOMER
YAMADA SHOKEN
CONTENTS
There is an offer to use following SDAS tools.
・AA/BRMODELLER
・YPS
CONTENTS
Demonstration is scheduled to be conducted by explanatory staff of our company at customer's place in next week. Simultaneously Q & A card (sent to development company) of customers are to be replied.

Fig. 9

```
<REPORT>
<HEADER>
<TITLE>BUSINESS NEGOTIATION REPORT</TITLE>
<DATE>1997.02. 17</DATE>
<PERSON IN CHARGE>YASUYUKI FUJIKAWA</PERSON IN CHARGE>
<NAME OF CUSTOMER>YAMADA SHOKEN</NAME OF CUSTOMER>
</HEADER>
<CONTENTS>
There is an offer to use following SDAS tools.
・AA/BRMODELLER
・YPS
</CONTENTS>
<CONTENTS>
Demonstration is scheduled to be conducted by
explanatory staff of our company at customer's
place in next week. Simultaneously Q & A card
(sent to development company) of customers are
to be replied.
</CONTENS>
</REPORT>
```

Fig. 10

Fig. 11

REGULAR EXPRESSION	MEANING
.	ONE ARBITRARY CHARACTER OTHER THAN LINE FEED (IT MAY BE EXPRESSED AS<<ARBITRARY CHARACTER>>OR <<CHARACTER OTHER THAN LINE FEED>>IN THIS SPECIFICATION)
*	0 OR MORE REPETITION(S)
+	ONE OR MORE REPETITIONS
|	OR
[ ]	ONE ARBITRARY CHARACTER IN BRACES
[^]	ONE CHARACTER OTHER THAN CHARACTERS IN BRACES
^	LINE HEAD(IT MAY BE EXPRESSED AS<<LINE HEAD>> IN THIS SPECIFICATION)
$	LINE END(IT MAY BE EXPRESSED AS<<LINE END>> IN THIS SPECIFICATION)
( )	PRIORITY
¥t	TUB(IT MAY BE EXPRESSED AS<<TUB>>IN THIS SPECIFICATION)
¥n	LINE FEED(IT MAY BE EXPRESSED AS<<LINE FEED>> IN THIS SPECIFICATION)
	SYMBOL¥ IS PUT IN FRONT WHEN DIRECTLY SPECIFYING ABOVE SYMBOL

Fig. 12

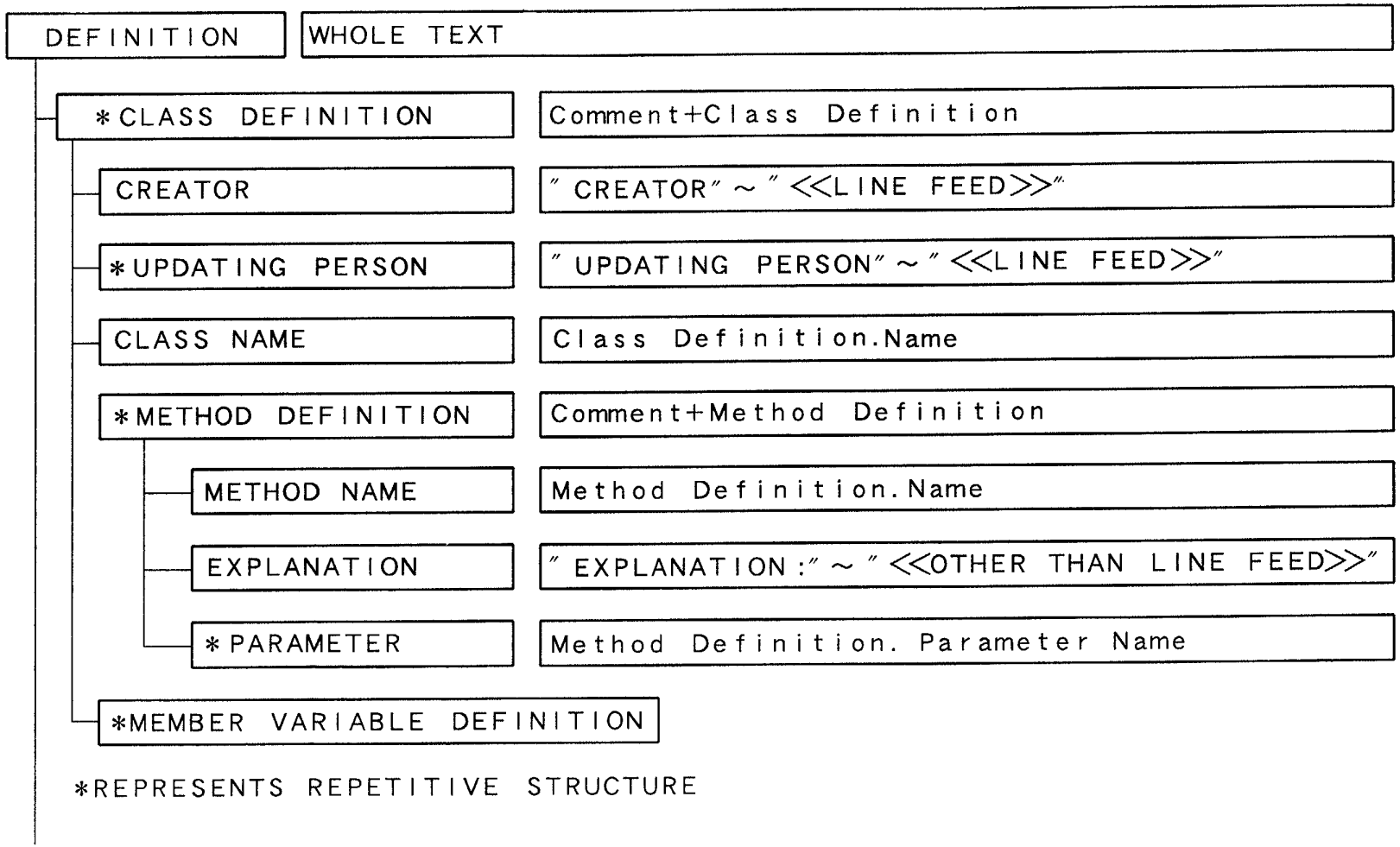

DEFINITION
WHOLE TEXT
*CLASS DEFINITION
Comment+Class Definition
CREATOR
" CREATOR" ~ " <<LINE FEED>>"
*UPDATING PERSON
" UPDATING PERSON" ~ " <<LINE FEED>>"
CLASS NAME
Class Definition.Name
*METHOD DEFINITION
Comment+Method Definition
METHOD NAME
Method Definition.Name
EXPLANATION
" EXPLANATION :" ~ " <<OTHER THAN LINE FEED>>"
*PARAMETER
Method Definition. Parameter Name
*MEMBER VARIABLE DEFINITION
*REPRESENTS REPETITIVE STRUCTURE

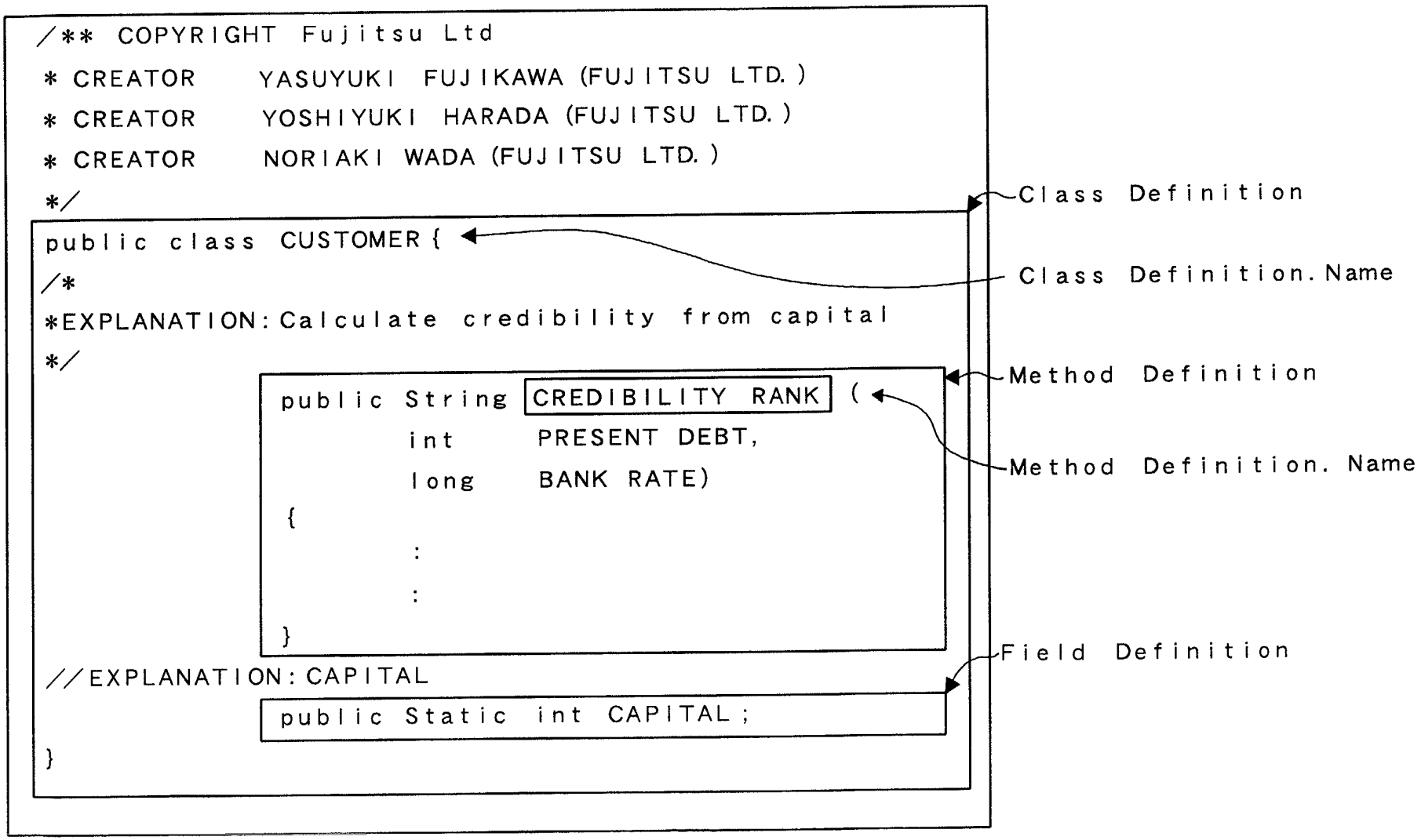
Fig. 13

```
/** COPYRIGHT Fujitsu Ltd
* CREATOR              YASUYUKI FUJIKAWA (FUJITSU LTD.)
* UPDATING PERSON      YOSHIYUKI HARADA (FUJITSU LTD.)
* UPDATING PERSON      NORIAKI WADA (FUJITSU LTD.)
*/
public class CUSTOMER{
/*
*EXPLANATION: Calculate credibility from capital
*/
              public String CREDIBILITY RANK (
                     int     PRESENT DEBT,
                     long    BANK RATE)
              {
                     :
                     :
              }
//EXPLANATION: CAPITAL
              public Static int CAPITAL;
}
```

Fig. 14

```
Class Definition:" public" "class" Name" {"Class Bodys"}" ;
Class Bodys:Class Body" ;"
        |Class Bodys Class Bodys" ;" ;
Class Body:Field Definition
        |Method Definition;
Method Definition:" public" Type Name' (' Formal Parameter List' (' {' Block'}' ;
Formal Parameter List:Formal Parameter
        |Formal Parameter List',' Formal Parameter;
Formal Parameter:Type Parameter Name;
```

Fig. 15


/** COPYRIGHT Fujitsu Ltd
* CREATOR YASUYUKI FUJIKAWA (FUJITSU LTD.)
* CREATOR YOSHIYUKI HARADA (FUJITSU LTD.)
* CREATOR NORIAKI WADA (FUJITSU LTD.)
*/
public class CUSTOMER{
/*
*EXPLANATION: Calculate credibility from capital
*/
public String CREDIBILITY RANK (
int PRESENT DEBT,
long BANK RATE)
{
:
:
}
//EXPLANATION: CAPITAL
public Static int CAPITAL;
}
Class Definition
Class Definition. Name
Method Definition
Method Definition. Name
Field Definition

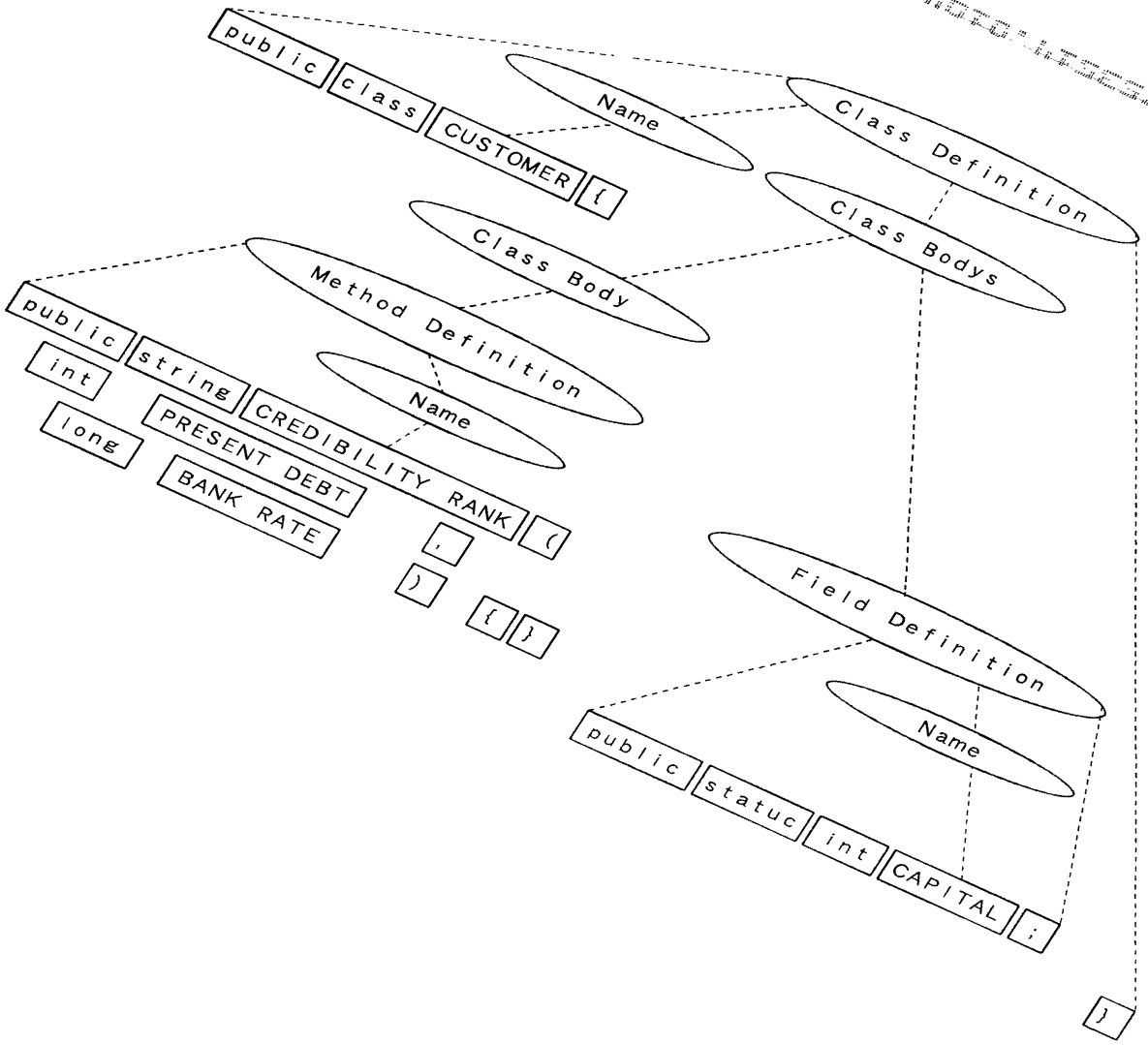

public
class
CUSTOMER
{
Name
Class Definition
Class Bodys
Class Body
Method Definition
public
int
long
string
PRESENT DEBT
BANK RATE
CREDIBILITY RANK
(
,
)
{
}
Name
Field Definition
Name
public
statuc
int
CAPITAL
;
}

Fig. 16

Fig. 17

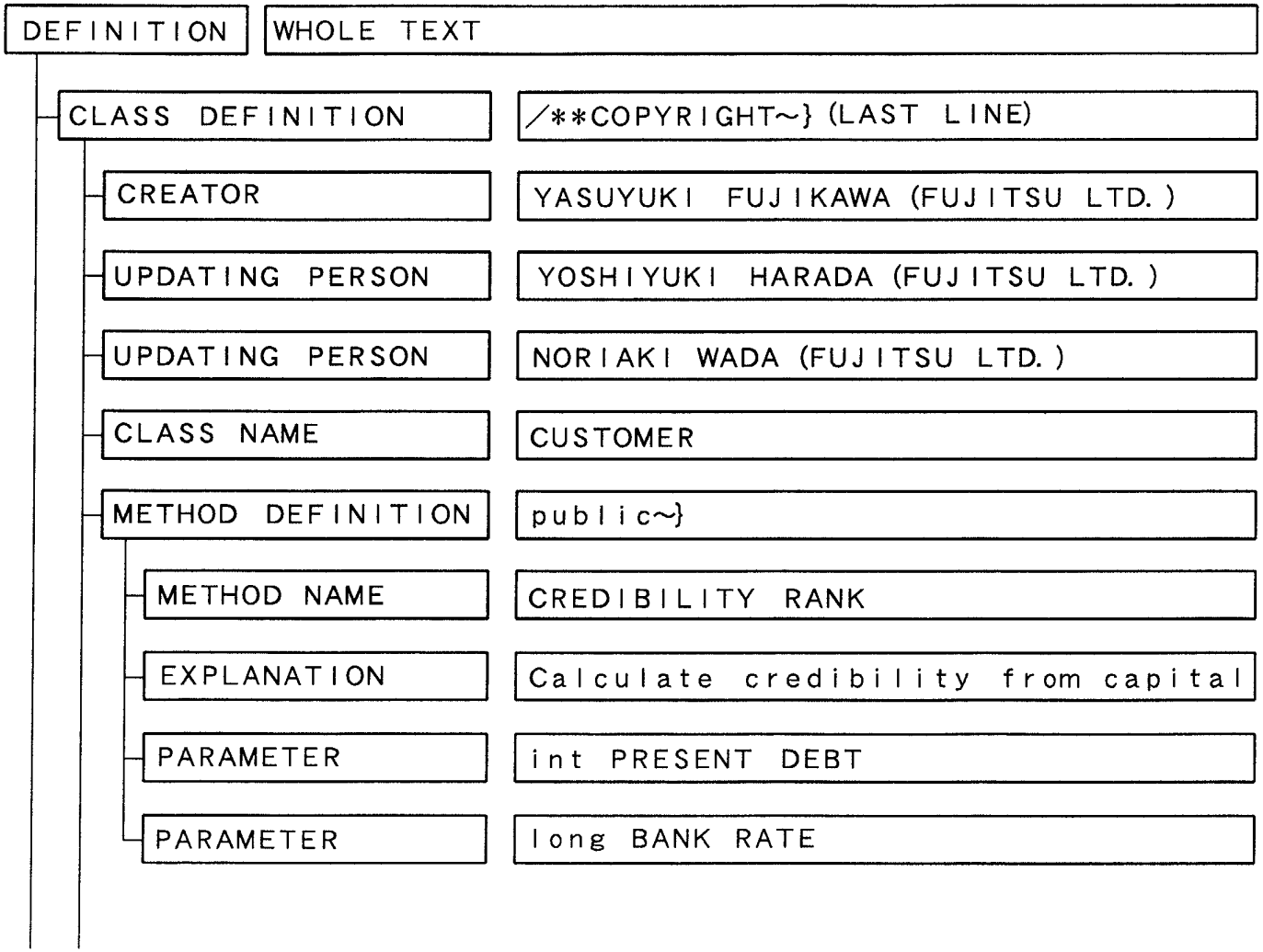

DEFINITION
WHOLE TEXT
CLASS DEFINITION
/**COPYRIGHT~} (LAST LINE)
CREATOR
YASUYUKI FUJIKAWA (FUJITSU LTD.)
UPDATING PERSON
YOSHIYUKI HARADA (FUJITSU LTD.)
UPDATING PERSON
NORIAKI WADA (FUJITSU LTD.)
CLASS NAME
CUSTOMER
METHOD DEFINITION
public~}
METHOD NAME
CREDIBILITY RANK
EXPLANATION
Calculate credibility from capital
PARAMETER
int PRESENT DEBT
PARAMETER
long BANK RATE

Fig. 18

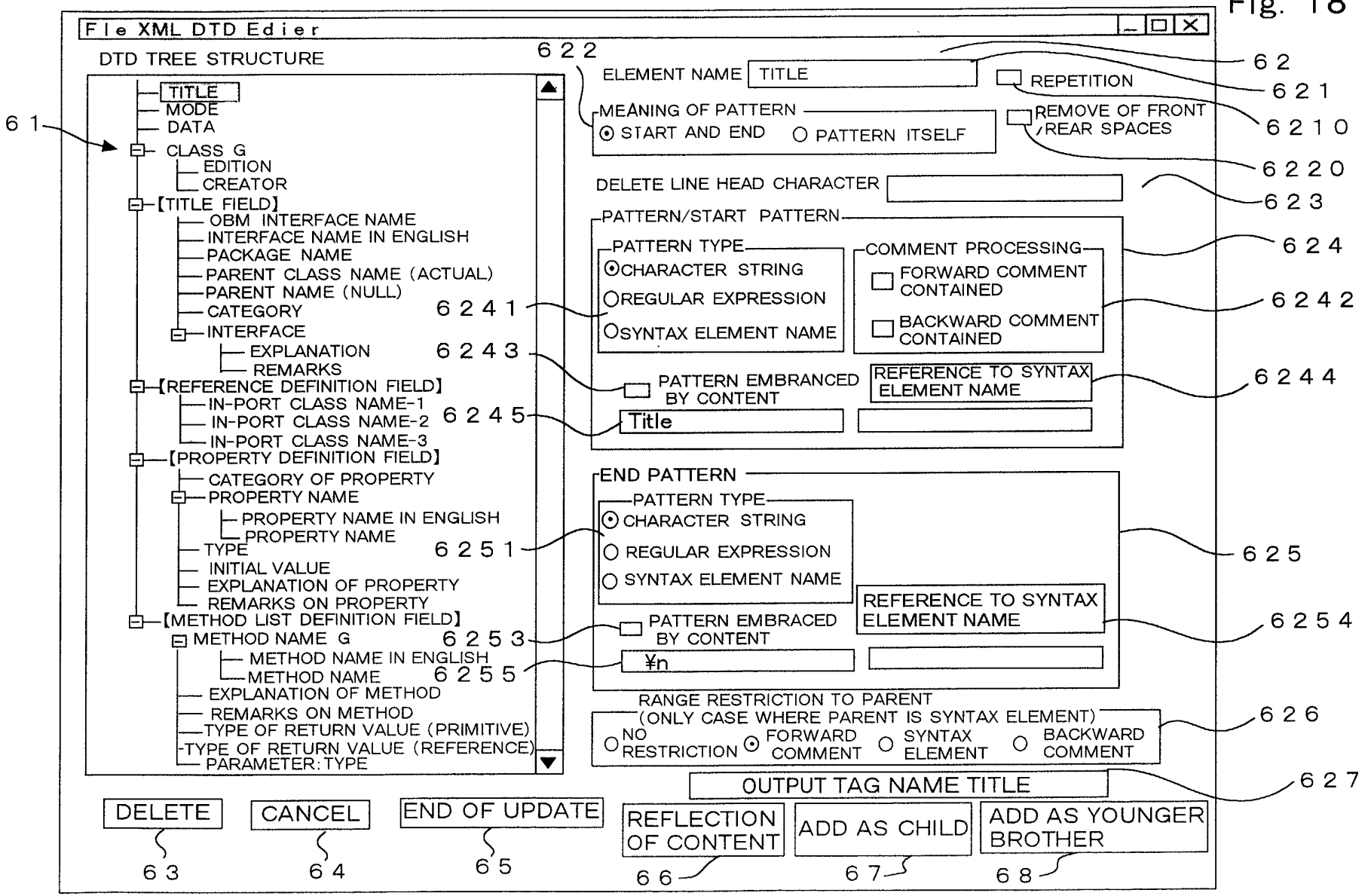

File XML DTD Edier
DTD TREE STRUCTURE
TITLE
MODE
DATA
CLASS G
EDITION
CREATOR
【TITLE FIELD】
OBM INTERFACE NAME
INTERFACE NAME IN ENGLISH
PACKAGE NAME
PARENT CLASS NAME (ACTUAL)
PARENT NAME (NULL)
CATEGORY
INTERFACE
EXPLANATION
REMARKS
【REFERENCE DEFINITION FIELD】
IN-PORT CLASS NAME-1
IN-PORT CLASS NAME-2
IN-PORT CLASS NAME-3
【PROPERTY DEFINITION FIELD】
CATEGORY OF PROPERTY
PROPERTY NAME
PROPERTY NAME IN ENGLISH
PROPERTY NAME
TYPE
INITIAL VALUE
EXPLANATION OF PROPERTY
REMARKS ON PROPERTY
【METHOD LIST DEFINITION FIELD】
METHOD NAME G
METHOD NAME IN ENGLISH
METHOD NAME
EXPLANATION OF METHOD
REMARKS ON METHOD
TYPE OF RETURN VALUE (PRIMITIVE)
TYPE OF RETURN VALUE (REFERENCE)
PARAMETER:TYPE
61
622
62
621
6210
6220
623
624
6241
6242
6243
6244
6245
6251
625
6253
6254
6255
626
627
ELEMENT NAME
TITLE
REPETITION
MEANING OF PATTERN
START AND END
PATTERN ITSELF
REMOVE OF FRONT /REAR SPACES
DELETE LINE HEAD CHARACTER
PATTERN/START PATTERN
PATTERN TYPE
CHARACTER STRING
REGULAR EXPRESSION
SYNTAX ELEMENT NAME
COMMENT PROCESSING
FORWARD COMMENT CONTAINED
BACKWARD COMMENT CONTAINED
PATTERN EMBRANCED BY CONTENT
REFERENCE TO SYNTAX ELEMENT NAME
Title
END PATTERN
PATTERN TYPE
CHARACTER STRING
REGULAR EXPRESSION
SYNTAX ELEMENT NAME
REFERENCE TO SYNTAX ELEMENT NAME
PATTERN EMBRACED BY CONTENT
¥n
RANGE RESTRICTION TO PARENT
(ONLY CASE WHERE PARENT IS SYNTAX ELEMENT)
NO RESTRICTION
FORWARD COMMENT
SYNTAX ELEMENT
BACKWARD COMMENT
OUTPUT TAG NAME TITLE
DELETE
CANCEL
END OF UPDATE
REFLECTION OF CONTENT
ADD AS CHILD
ADD AS YOUNGER BROTHER
63
64
65
66
67
68

Fig. 19

```
[DEVELOPMENT HYSTERESIS]
ROOT:YES
CHILD NODE=FIRST EDITION INFORMATION,
          UPDATE HYSTERESIS

[FIRST EDITION INFORMATION]
CHILD NODE=CREATOR, DATE OF CREATION
PATTERN SPECIFYING MODE:START/END
START PATTERN:CHARACTER STRING: [FIRST EDITION CREATOR]
END PATTERN: REGULAR EXPRESSION:<<LINE END>>
REPETITION: UNSPECIFIED
SEQUENTIALITY:UNSPECIFIED

[CREATOR]
PATTERN SPECIFYING MODE:START/END
START PATTERN: REGULAR EXPRESSION:<<LINE HEAD>>
END PATTERN: CHARACTER STRING: [:]
REPETITION: UNSPECIFIED
SEQUENTIALITY:UNSPECIFIED

[DATE OF CREATION]
PATTERN SPECIFYING MODE:START/END
START PATTERN:CHARACTER STRING: [:]
END PATTERN: REGULAR EXPRESSION:<<LINE END>>
REPETITION: UNSPECIFIED
SEQUENTIALITY:SPECIFIED

[UPDATE HYSTERESIS]
CHILD NODE=DATE OF UPDATING, EDITION NUMBER
PATTERN SPECIFYING MODE:START/END
START PATTERN:CHARACTER STRING: [UPDATE HYSTERESIS]
END PATTERN: REGULAR EXPRESSION:<<LINE END>>
REPETITION: SPECIFIED
SEQUENTIALITY:SPECIFIED

[DATE OF UPDATING]
PATTERN SPECIFYING MODE:START/END
START PATTERN: REGULAR EXPRESSION:<<LINE HEAD>>
END PATTERN:CHARACTER STRING: [/]
REPETITION: UNSPECIFIED
SEQUENTIALITY:UNSPECIFIED

[EDITION NUMBER]
PATTERN SPECIFYING MODE:START/END
START PATTERN:CHARACTER STRING: [/]
END PATTERN: REGULAR EXPRESSION:<<LINE END>>
REPETITION: UNSPECIFIED
SEQUENTIALITY:UNSPECIFIED
```

Fig. 20

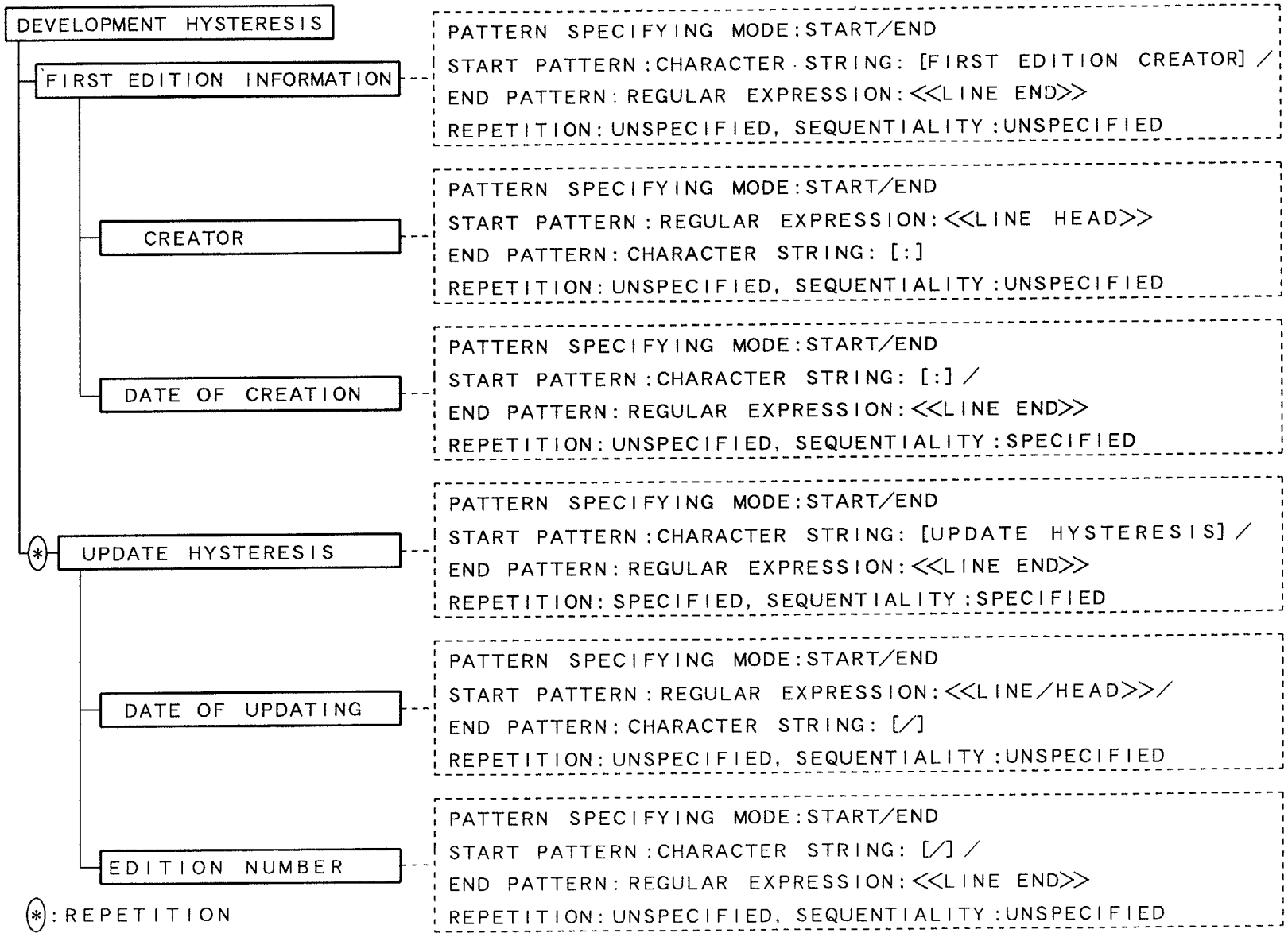

DEVELOPMENT HYSTERESIS
FIRST EDITION INFORMATION
PATTERN SPECIFYING MODE:START/END
START PATTERN:CHARACTER STRING: [FIRST EDITION CREATOR] /
END PATTERN: REGULAR EXPRESSION:<<LINE END>>
REPETITION:UNSPECIFIED, SEQUENTIALITY:UNSPECIFIED
CREATOR
PATTERN SPECIFYING MODE:START/END
START PATTERN:REGULAR EXPRESSION:<<LINE HEAD>>
END PATTERN:CHARACTER STRING: [:]
REPETITION:UNSPECIFIED, SEQUENTIALITY:UNSPECIFIED
DATE OF CREATION
PATTERN SPECIFYING MODE:START/END
START PATTERN:CHARACTER STRING: [:] /
END PATTERN:REGULAR EXPRESSION:<<LINE END>>
REPETITION:UNSPECIFIED, SEQUENTIALITY:SPECIFIED
(*) UPDATE HYSTERESIS
PATTERN SPECIFYING MODE:START/END
START PATTERN:CHARACTER STRING: [UPDATE HYSTERESIS] /
END PATTERN:REGULAR EXPRESSION:<<LINE END>>
REPETITION:SPECIFIED, SEQUENTIALITY:SPECIFIED
DATE OF UPDATING
PATTERN SPECIFYING MODE:START/END
START PATTERN:REGULAR EXPRESSION:<<LINE/HEAD>>/
END PATTERN:CHARACTER STRING: [/]
REPETITION:UNSPECIFIED, SEQUENTIALITY:UNSPECIFIED
EDITION NUMBER
PATTERN SPECIFYING MODE:START/END
START PATTERN:CHARACTER STRING: [/] /
END PATTERN:REGULAR EXPRESSION:<<LINE END>>
REPETITION:UNSPECIFIED, SEQUENTIALITY:UNSPECIFIED
(*):REPETITION

Fig. 21

```
**********************************************************
FIRST EDITION CREATOR    YASUYUKI FUJIKAWA : 1999.01.01
**********************************************************
UPDATE HYSTERESIS        1999.12.16 / 1.1ST EDITION
UPDATE HYSTERESIS        2000.02.14 / 1.2ND EDITION
**********************************************************
```

Fig. 22

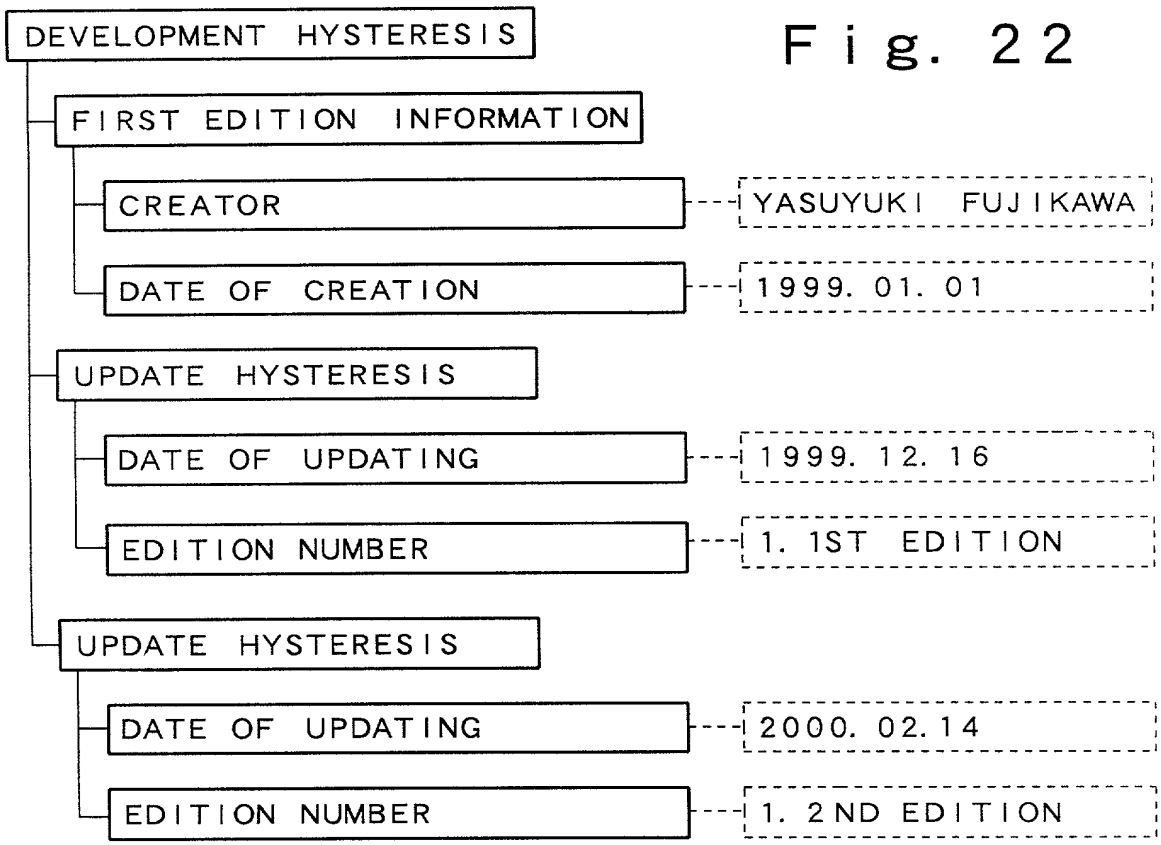


Fig. 23

```
<DEVELOPMENT HYSTERESIS>
<FIRST EDITION INFORMATION>
<CREATOR> YASUYUKI FUJIKAWA </CREATOR>
<DATE OF CREATION> 1999. 01. 01 </DATE OF CREATION>
<UPDATE HYSTERESIS>
<DATE OF UPDATING> 1999. 12. 16 </DATE OF UPDATING>
<EDITION NUMBER> 1. 1ST EDITION</EDITION NUMBER>
</UPDATE HYSTERESIS>
<UPDATE HYSTERESIS>
<DATE OF UPDATING>2000. 02. 14 </DATE OF UPDATING>
<EDITION NUMBER>1. 2ND EDITION</EDITION NUMBER>
</UPDATE HYSTERESIS>
</DEVELOPMENT HYSTERESIS>
```

Fig. 24

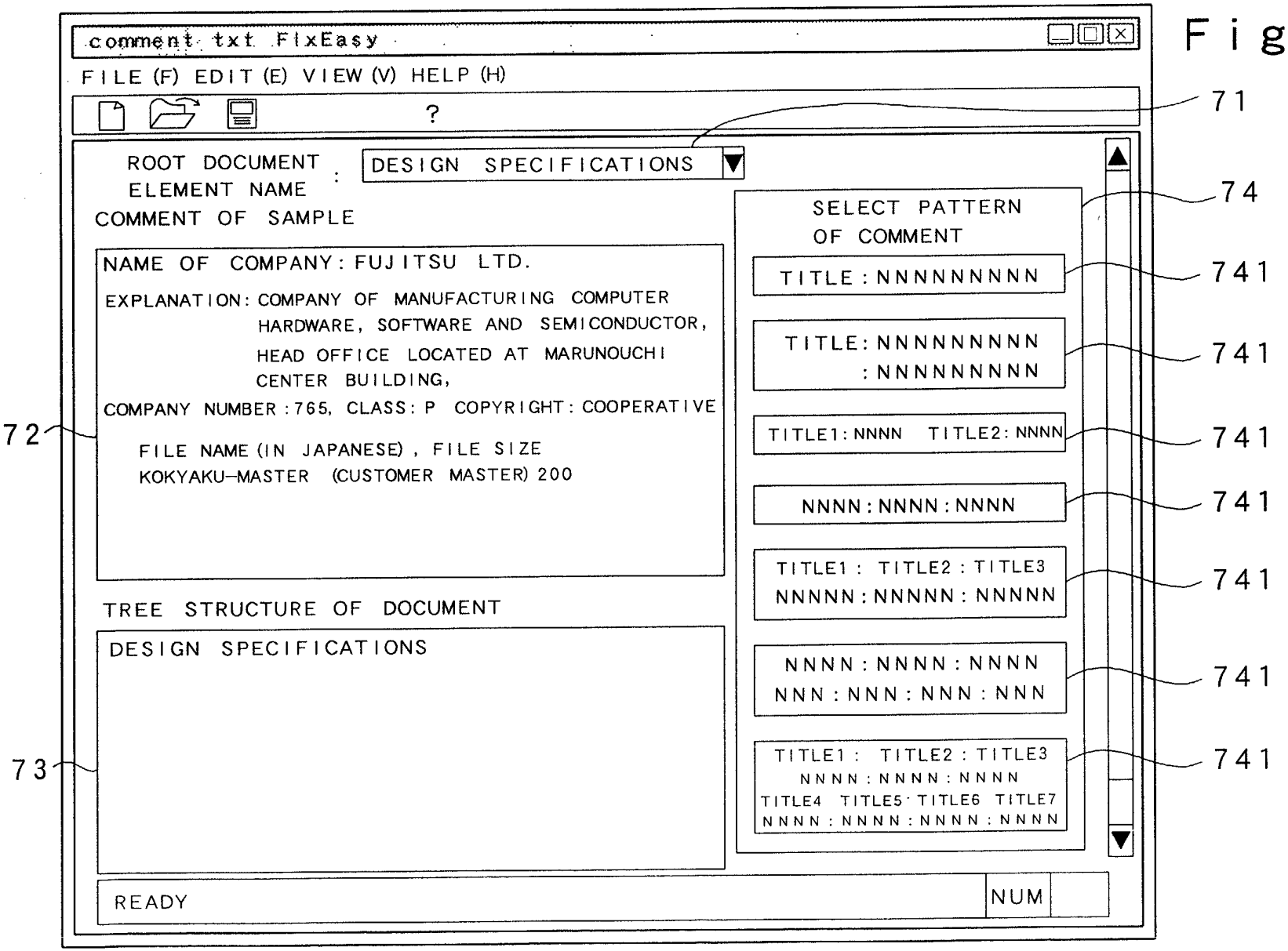

comment.txt FixEasy
FILE (F) EDIT (E) VIEW (V) HELP (H)
?
71
ROOT DOCUMENT ELEMENT NAME :
DESIGN SPECIFICATIONS
COMMENT OF SAMPLE
NAME OF COMPANY: FUJITSU LTD.
EXPLANATION: COMPANY OF MANUFACTURING COMPUTER HARDWARE, SOFTWARE AND SEMICONDUCTOR, HEAD OFFICE LOCATED AT MARUNOUCHI CENTER BUILDING,
COMPANY NUMBER: 765, CLASS: P COPYRIGHT: COOPERATIVE
FILE NAME (IN JAPANESE), FILE SIZE
KOKYAKU-MASTER (CUSTOMER MASTER) 200
72
TREE STRUCTURE OF DOCUMENT
DESIGN SPECIFICATIONS
73
SELECT PATTERN OF COMMENT
74
TITLE: NNNNNNNNN
741
TITLE: NNNNNNNNN
: NNNNNNNNN
741
TITLE1: NNNN TITLE2: NNNN
741
NNNN: NNNN: NNNN
741
TITLE1 : TITLE2 : TITLE3
NNNNN: NNNNN: NNNNN
741
NNNN: NNNN: NNNN
NNN: NNN: NNN: NNN
741
TITLE1 : TITLE2 : TITLE3
NNNN: NNNN: NNNN
TITLE4 TITLE5 TITLE6 TITLE7
NNNN: NNNN: NNNN: NNNN
741
READY
NUM

Fig. 25

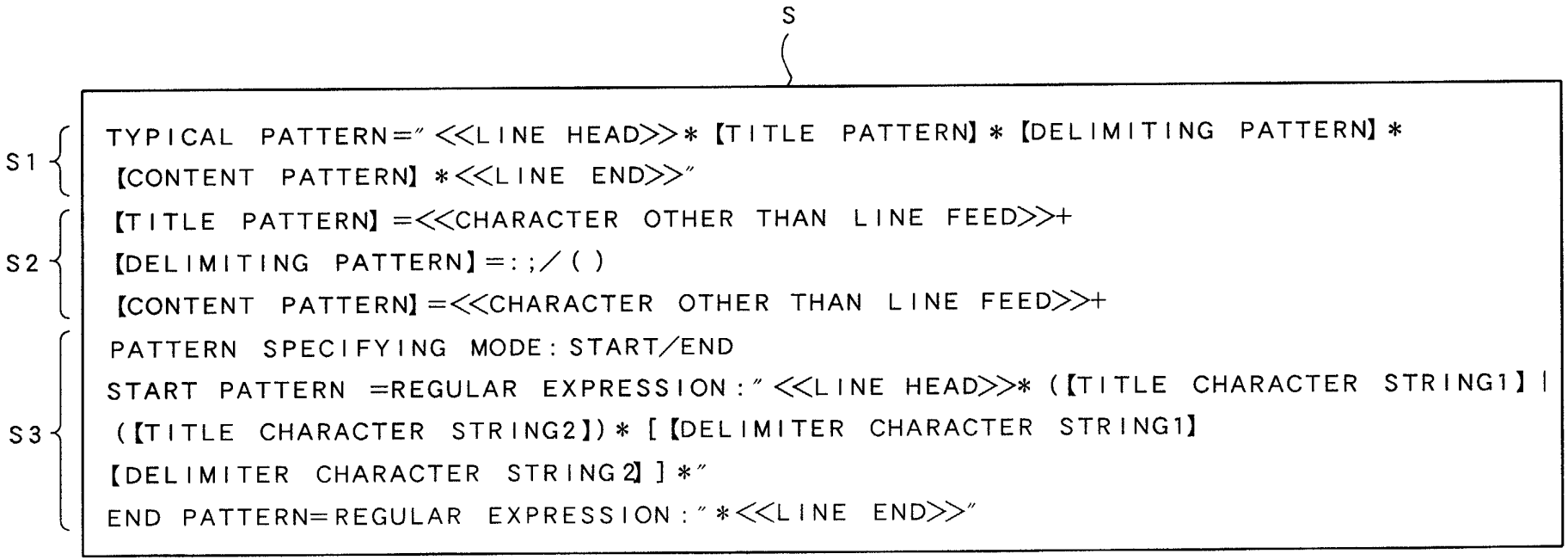

S
S1
TYPICAL PATTERN=" <<LINE HEAD>>* 【TITLE PATTERN】* 【DELIMITING PATTERN】*
【CONTENT PATTERN】 *<<LINE END>>"
S2
【TITLE PATTERN】 =<<CHARACTER OTHER THAN LINE FEED>>+
【DELIMITING PATTERN】=:;/( )
【CONTENT PATTERN】=<<CHARACTER OTHER THAN LINE FEED>>+
S3
PATTERN SPECIFYING MODE: START/END
START PATTERN =REGULAR EXPRESSION:" <<LINE HEAD>>* (【TITLE CHARACTER STRING1】|
(【TITLE CHARACTER STRING2】)* [【DELIMITER CHARACTER STRING1】
【DELIMITER CHARACTER STRING2】]*"
END PATTERN=REGULAR EXPRESSION:"*<<LINE END>>"

Fig. 26

```
S1  TYPICAL PATTERN="<<LINE HEAD>>*【TITLE PATTERN1】*
    【DELIMITING PATTERN1】*【TITLE PATTERN2】*
    【DELIMITING PATTERN2】*【TITLE PATTERN3】*
    【DELIMITING PATTERN3】*【TITLE PATTERN4】*
    【DELIMITING PATTERN4】*【TITLE PATTERN5】*<<LINE END>>"
S2  【TITLE PATTERN】=<<CHARACTER OTHER THAN LINE FEFD>>+
    【DELIMITING PATTERN】=:;/()

    [【PARENT NODE】]
    CHILD NODE=【TITLE PATTERN1】,【TITLE PATTERN2】,
    【TITLE PATTERN3】,【TITLE PATTERN4】,【TITLE PATTERN5】
    PATTERN SPECIFYING MODE:START/END
S3a START PATTERN=REGULAR EXPRESSION:"<<LINE HEAD>>*
    【TITLE PATTERN1】*【DELIMITING PATTERN1】*
    【TITLE PATTERN2】*【DELIMITING PATTERN2】*
    【TITLE PATTERN3】*【DELIMITING PATTERN3】*
    【TITLE PATTERN4】*【DELIMITING PATTERN4】*
    【TITLE PATTERN5】*<<LINE END>>"
    END PATTERN=REGULAR EXPRESSION:"*<<LINE END>>"

    [【TITLE PATTERN1】]
    PATTERN SPECIFYING MODE:START/END
S3b START PATTERN =REGULAR EXPRESSION:"<<LINE HEAD>>*
    【TITLE PATTERN1】*【DELIMITING PATTERN1】"
    END PATTERN=REGULAR EXPRESSION:"【DELIMITING PATTERN2】"

    [【TITLE PATTERN2】]
    PATTERN SPECIFYING MODE:START/END
S3b START PATTERN =REGULAR EXPRESSION:"<<LINE HEAD>>"
    END PATTERN=REGULAR EXPRESSION:"【DELIMITING PATTERN3】"
    SEQUENTIALITY:SPECIFIED

    [【TITLE PATTERN3】]
    PATTERN SPECIFYING MODE:START/END
S3b START PATTERN =REGULAR EXPRESSION:"<<LINE HEAD>>"
    END PATTERN=REGULAR EXPRESSION:"【DELIMITING PATTERN4】"
    SEQUENTIALITY:SPECIFIED
    (INTERMEDIATE INFORMATION SEGMENTS OMITTED)
    [【TITLE PATTERN5】]
    PATTERN SPECIFYING MODE:START/END
S3b START PATTERN =REGULAR EXPRESSION:"<<LINE HEAD>>"
    END PATTERN=REGULAR EXPRESSION:"<<LINE END>>"
    SEQUENTIALITY:SPECIFIED
```

Fig. 27

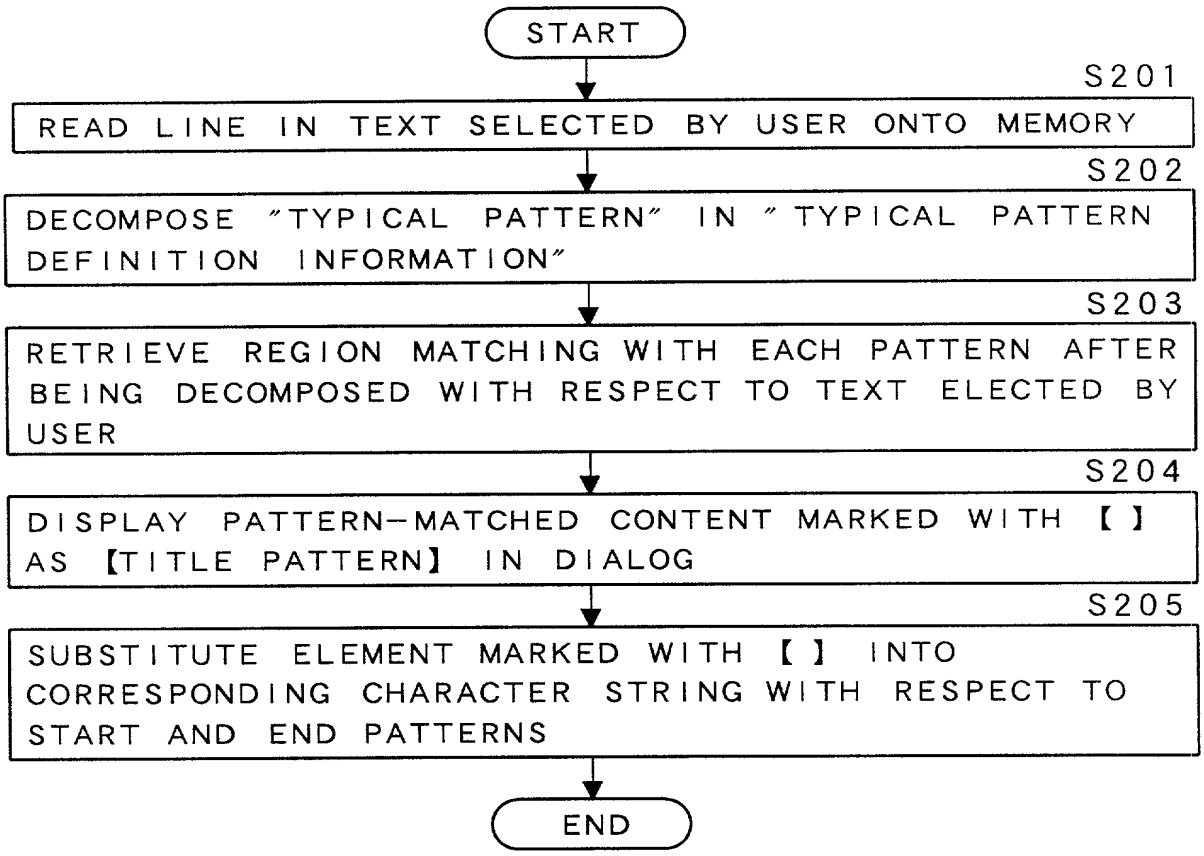

START
S201
READ LINE IN TEXT SELECTED BY USER ONTO MEMORY
S202
DECOMPOSE "TYPICAL PATTERN" IN "TYPICAL PATTERN DEFINITION INFORMATION"
S203
RETRIEVE REGION MATCHING WITH EACH PATTERN AFTER BEING DECOMPOSED WITH RESPECT TO TEXT ELECTED BY USER
S204
DISPLAY PATTERN-MATCHED CONTENT MARKED WITH 【 】 AS 【TITLE PATTERN】 IN DIALOG
S205
SUBSTITUTE ELEMENT MARKED WITH 【 】 INTO CORRESPONDING CHARACTER STRING WITH RESPECT TO START AND END PATTERNS
END

Fig. 28

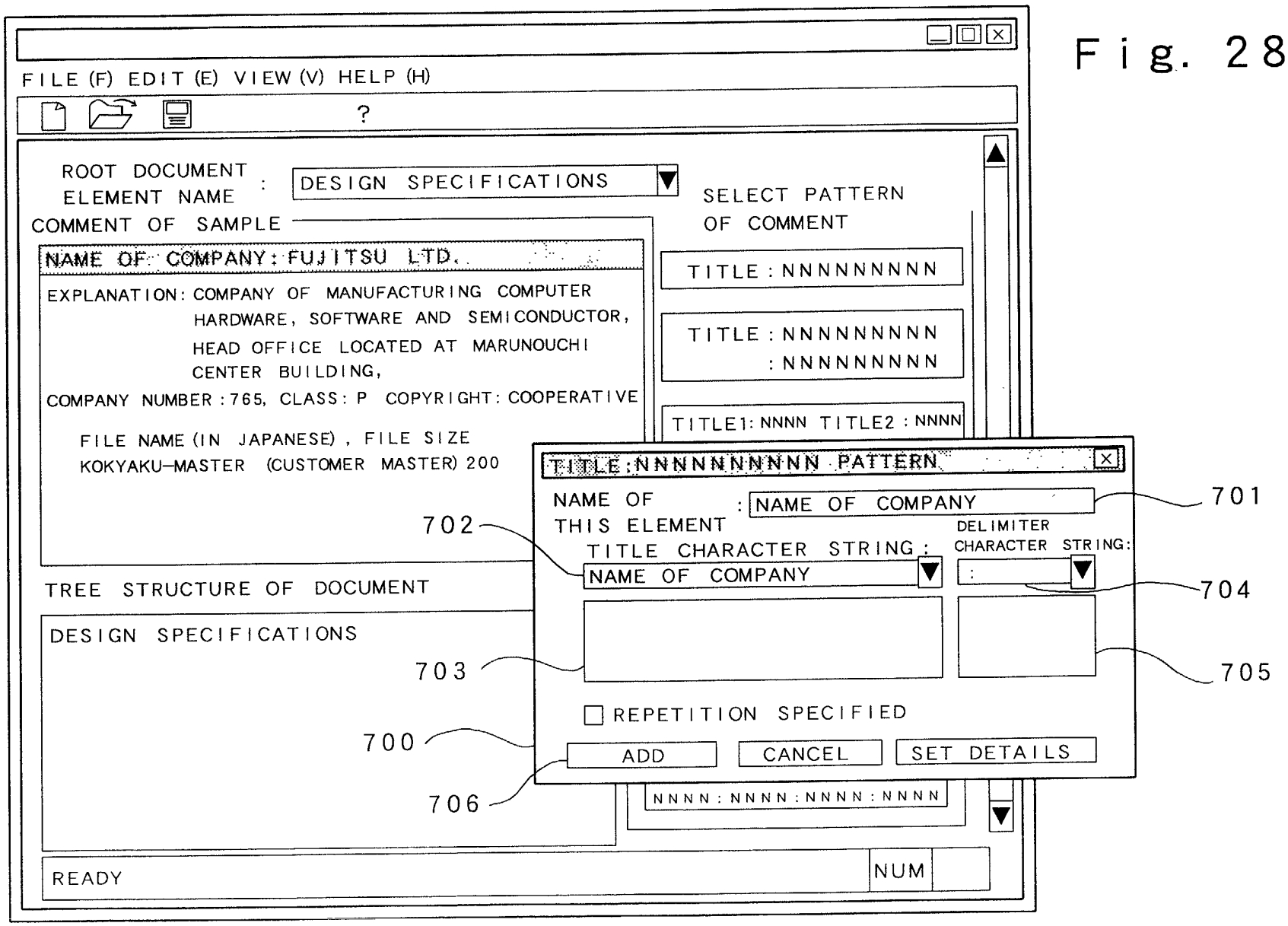
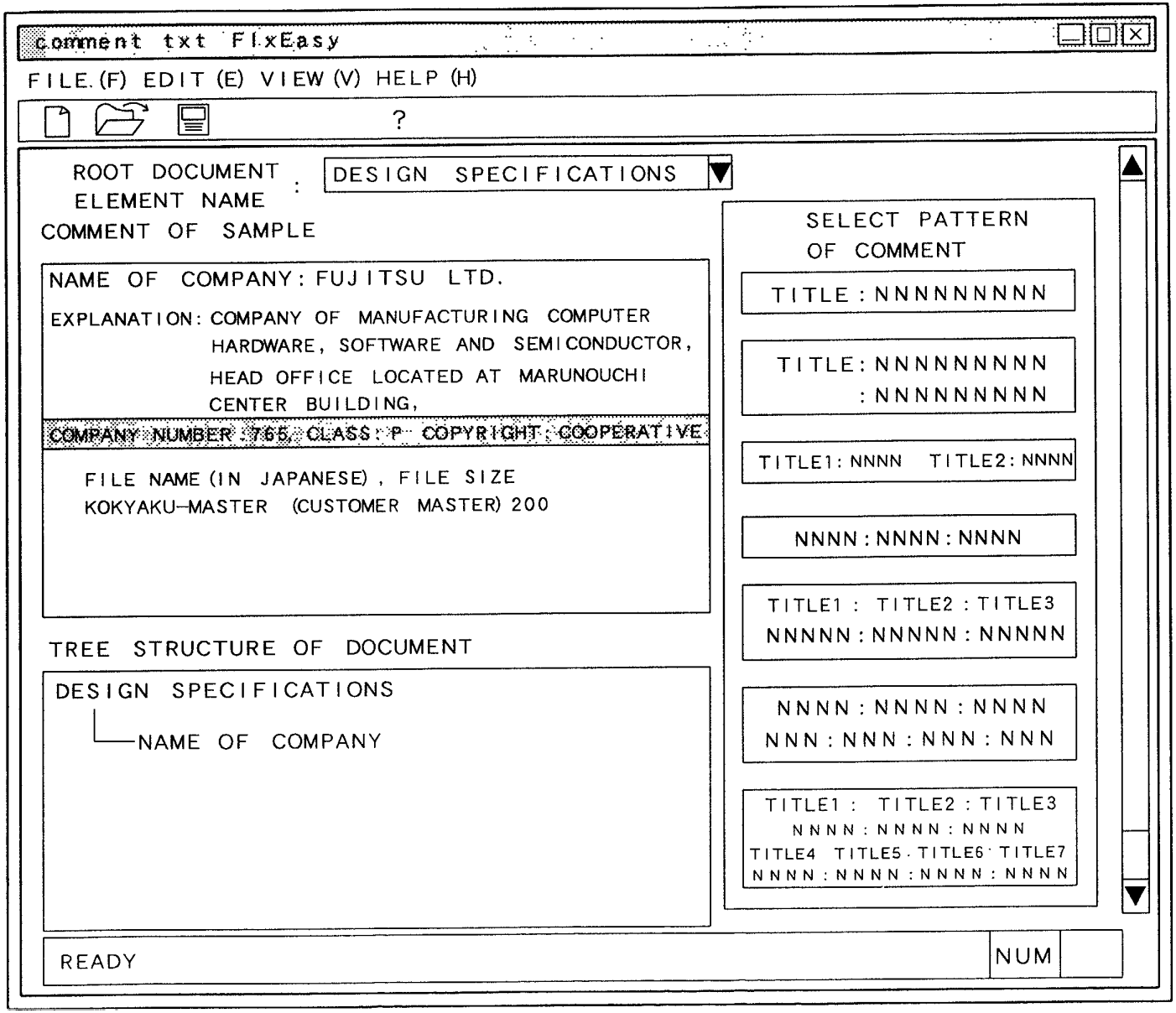

FILE (F) EDIT (E) VIEW (V) HELP (H)
?
ROOT DOCUMENT ELEMENT NAME :
DESIGN SPECIFICATIONS
SELECT PATTERN OF COMMENT
COMMENT OF SAMPLE
NAME OF COMPANY: FUJITSU LTD.
EXPLANATION: COMPANY OF MANUFACTURING COMPUTER HARDWARE, SOFTWARE AND SEMICONDUCTOR, HEAD OFFICE LOCATED AT MARUNOUCHI CENTER BUILDING,
COMPANY NUMBER : 765, CLASS: P COPYRIGHT: COOPERATIVE
FILE NAME (IN JAPANESE) , FILE SIZE
KOKYAKU-MASTER (CUSTOMER MASTER) 200
TITLE : NNNNNNNNN
TITLE : NNNNNNNNN
: NNNNNNNNN
TITLE1: NNNN TITLE2 : NNNN
TITLE : NNNNNNNNN PATTERN
NAME OF THIS ELEMENT :
NAME OF COMPANY
701
TITLE CHARACTER STRING :
NAME OF COMPANY
DELIMITER CHARACTER STRING:
:
704
702
703
705
REPETITION SPECIFIED
700
ADD
CANCEL
SET DETAILS
706
TREE STRUCTURE OF DOCUMENT
DESIGN SPECIFICATIONS
NNNN : NNNN : NNNN : NNNN
READY
NUM

Fig. 29

```
[NAME OF COMPANY]
PATTERN SPECIFYING MODE:START/END
START PATTERN=REGULAR EXPRESSION:"<<LINE HEAD>>*(FUJITSU)*[:]*"
END PATTERN=REGULAR EXPRESSION:"<<LINE END>>
```


comment txt FIxEasy
FILE.(F) EDIT (E) VIEW (V) HELP (H)
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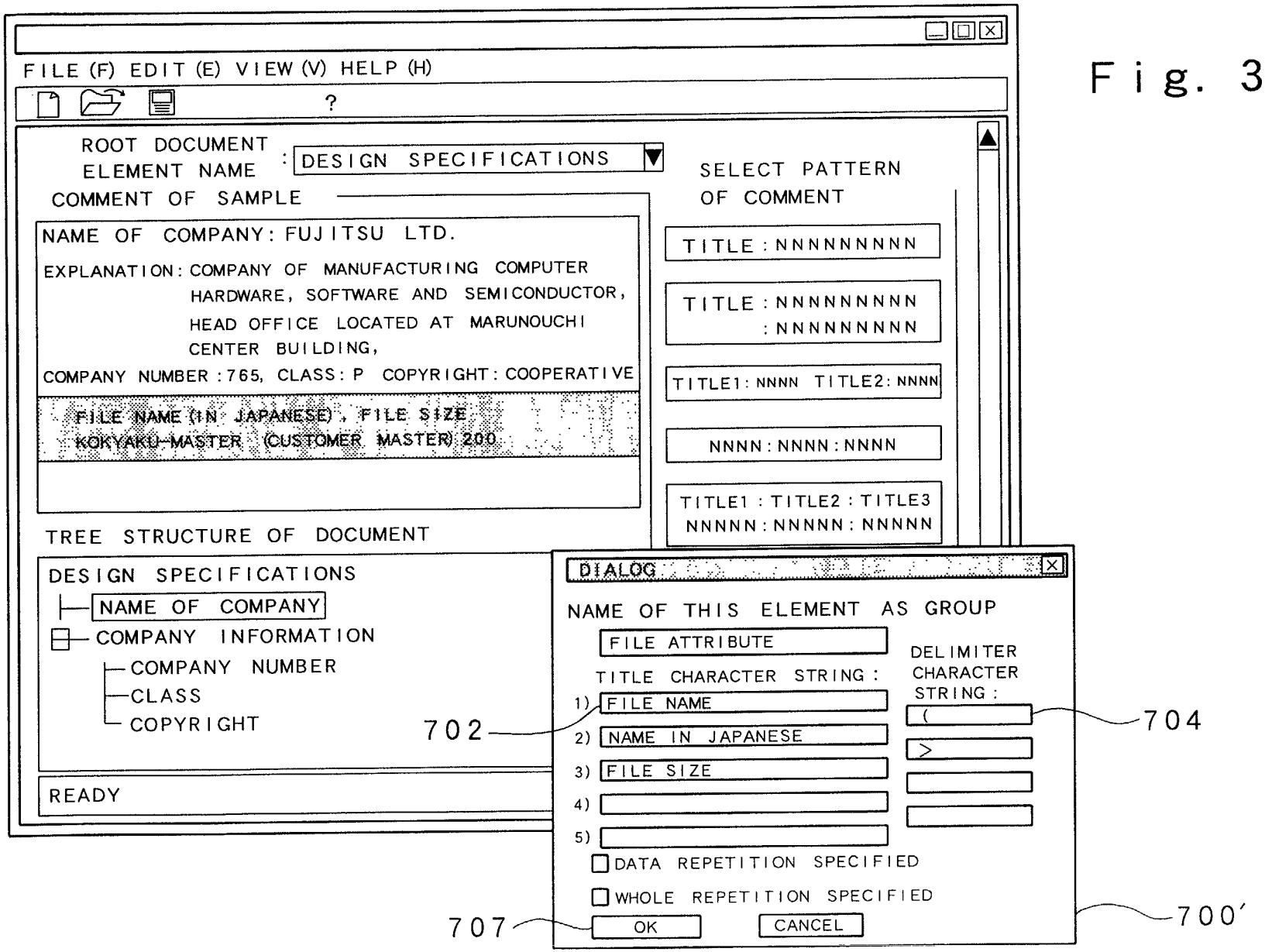
DESIGN SPECIFICATIONS
COMMENT OF SAMPLE
NAME OF COMPANY: FUJITSU LTD.
EXPLANATION: COMPANY OF MANUFACTURING COMPUTER HARDWARE, SOFTWARE AND SEMICONDUCTOR, HEAD OFFICE LOCATED AT MARUNOUCHI CENTER BUILDING,
COMPANY NUMBER: 765, CLASS: P COPYRIGHT: COOPERATIVE
FILE NAME (IN JAPANESE), FILE SIZE
KOKYAKU-MASTER (CUSTOMER MASTER) 200
TREE STRUCTURE OF DOCUMENT
DESIGN SPECIFICATIONS
NAME OF COMPANY
SELECT PATTERN OF COMMENT
TITLE: NNNNNNNNN
TITLE: NNNNNNNNN
: NNNNNNNNN
TITLE1: NNNN TITLE2: NNNN
NNNN: NNNN: NNNN
TITLE1 : TITLE2 : TITLE3
NNNNN : NNNNN : NNNNN
NNNN : NNNN : NNNN
NNN : NNN : NNN : NNN
TITLE1 : TITLE2 : TITLE3
NNNN : NNNN : NNNN
TITLE4 TITLE5 TITLE6 TITLE7
NNNN : NNNN : NNNN : NNNN
READY
NUM

Fig. 30

Fig. 31


FILE (F) EDIT (E) VIEW (V) HELP (H)
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NAME OF COMPANY: FUJITSU LTD.
EXPLANATION: COMPANY OF MANUFACTURING COMPUTER HARDWARE, SOFTWARE AND SEMICONDUCTOR, HEAD OFFICE LOCATED AT MARUNOUCHI CENTER BUILDING,
COMPANY NUMBER : 765, CLASS: P COPYRIGHT: COOPERATIVE
FILE NAME (IN JAPANESE), FILE SIZE
KOKYAKU-MASTER (CUSTOMER MASTER) 200
SELECT PATTERN OF COMMENT
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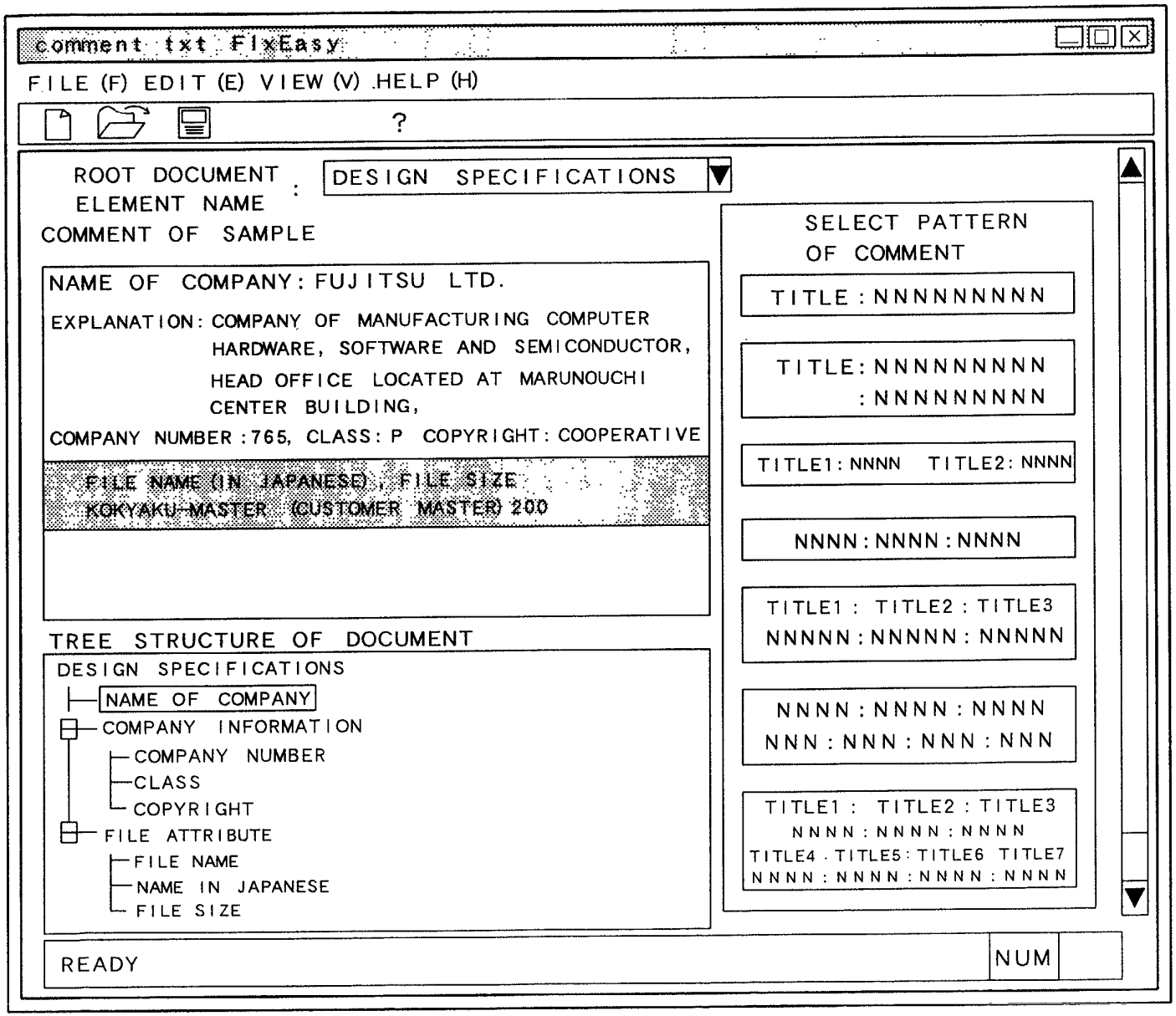
TITLE : NNNNNNNNN : NNNNNNNNN
TITLE1: NNNN TITLE2: NNNN
NNNN : NNNN : NNNN
TITLE1 : TITLE2 : TITLE3 NNNNN : NNNNN : NNNNN
TREE STRUCTURE OF DOCUMENT
DESIGN SPECIFICATIONS
NAME OF COMPANY
COMPANY INFORMATION
COMPANY NUMBER
CLASS
COPYRIGHT
READY
DIALOG
NAME OF THIS ELEMENT AS GROUP
FILE ATTRIBUTE
TITLE CHARACTER STRING :
DELIMITER CHARACTER STRING :
1) FILE NAME
2) NAME IN JAPANESE
3) FILE SIZE
4)
5)
(
>
DATA REPETITION SPECIFIED
WHOLE REPETITION SPECIFIED
OK
CANCEL
702
704
707
700'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FILE (F) EDIT (E) VIEW (V) HELP (H)
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NAME OF COMPANY: FUJITSU LTD.
EXPLANATION: COMPANY OF MANUFACTURING COMPUTER HARDWARE, SOFTWARE AND SEMICONDUCTOR, HEAD OFFICE LOCATED AT MARUNOUCHI CENTER BUILDING,
COMPANY NUMBER :765, CLASS: P COPYRIGHT: COOPERATIVE
FILE NAME (IN JAPANESE), FILE SIZE
KOKYAKU-MASTER (CUSTOMER MASTER) 200
TREE STRUCTURE OF DOCUMENT
DESIGN SPECIFICATIONS
NAME OF COMPANY
COMPANY INFORMATION
COMPANY NUMBER
CLASS
COPYRIGHT
FILE ATTRIBUTE
FILE NAME
NAME IN JAPANESE
FILE SIZE
SELECT PATTERN OF COMMENT
TITLE : NNNNNNNNN
TITLE: NNNNNNNNN : NNNNNNNNN
TITLE1: NNNN TITLE2: NNNN
NNNN : NNNN : NNNN
TITLE1 : TITLE2 : TITLE3 NNNNN : NNNNN : NNNNN
NNNN : NNNN : NNNN NNN : NNN : NNN : NNN
TITLE1 : TITLE2 : TITLE3 NNNN : NNNN : NNNN TITLE4 . TITLE5 : TITLE6 TITLE7 NNNN : NNNN : NNNN : NNNN
READY
NUM

Fig. 32

Fig. 33

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<DATE>1997.02. 17</DATE>
<IN-CHARGE>YASUYUKI FUJIKAWA</IN-CHARGE>
<CUSTOMER>YAMADA SHOKEN</CUSTOMER>
</HEADER>
<CONTENTS>
There is an offer to use following SDAS tools.
・AA/BRMODELLER
・YPS
</CONTENTS>
<CONTENTS>
Demonstration is scheduled to be conducted by
explanatory staff of our company at customer's
place in next week. Simultaneously Q & A card
(sent to development company) of customers are
to be replied.
</CONTENS>
</REPORT>
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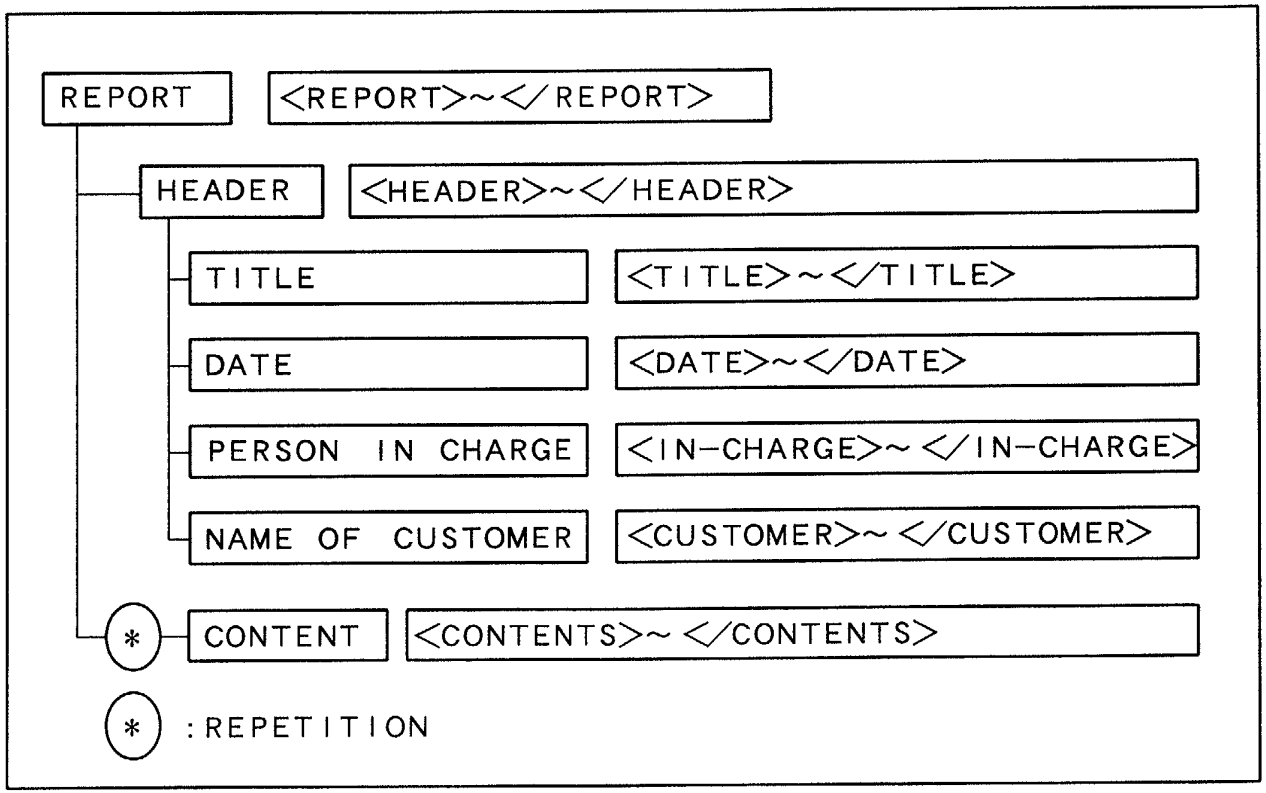
Fig. 34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TITLE
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DATE
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PERSON IN CHARGE
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NAME OF CUSTOMER
<CUSTOMER>~</CUSTOMER>
*
CONTENT
<CONTENTS>~</CONTENTS>
*
:REPETITION